Exhibit B

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1
                 UNITED STATES DISTRICT COURT
 2
              SOUTHERN DISTRICT OF WEST VIRGINIA
 3
                     CHARLESTON DIVISION
 4
 5
    IN RE: ETHICON, INC., ) Master File No.
    PELVIC REPAIR SYSTEMS
                          ) 2:12-MD-02327
    PRODUCTS LIABILITY ) MDL 2327
 6
                          ) JOSEPH R. GOODWIN
    LITIGATION,
7
                           ) U.S. DISTRICT JUDGE
    -----) ------
8
    THIS DOCUMENT RELATES TO ) Case No.
                          ) 2:12-CV-05201
9
    JO HUSKEY, ET AL., V.
    ETHICON, INC.,
10
        ----) ------
11
    TONYA AND GARY EDWARDS, ) Case No.
                          ) 2:12-cv-09972
12
    ETHICON, INC., ET AL.,
13
    -----) ------
14
15
16
17
         The videotaped deposition of WENXIN ZHENG, M.D.,
    called by the Plaintiffs for examination, taken pursuant
18
    to the Federal Rules of Civil Procedure of the United
19
20
    States District Courts pertaining to the taking of
21
    depositions, taken before BONNIE J. HUMM, RPR, Certified
22
    Reporter in the State of Arizona, No. 50722, at the
23
    Westin La Paloma, 3800 East Sunrise Drive, Tucson,
    Arizona, on April 3, 2014, commencing at 10:11 a.m.
24
25
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2	For the Plaintiffs:	2	WITNESS PAGE
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5	28 Bridgeside Boulevard	5	Examination by Mr. Snell 270
6	Mt. Pleasant, South Carolina 29464	6	Re-Examination by Ms. Thompson 287
7	(843) 518-0645	7	
8	mthompsonmd@gmail.com	8	
9	mulompsolina & gman.com	9	EXHIBITS
10	For the Huskey Plaintiffs:	10	NUMBER DESCRIPTION PAGE
11	MOTLEY RICE LLC	11	Notice of Deposition Pursuant to Rule 32
12	By: Fidelma L. Fitzpatrick, Esq.	12	30 and Document Requests Pursuant to
13	321 South Main Street	13	Rule 34 of Wenxin Zheng, M.D.
14	Providence, Rhode Island 02903	14	2 PowerPoints brought by Dr. Zheng with 36
15	(401) 457-7728	15	accompanying color photographs of
16	ffitzpatrick@motleyrice.com	16	slides: Comparisons of HE pictures to
17	indeputiek@moticyfice.com	17	those after polarization; Vascular
18	For the Edwards Plaintiffs:	18	pictures from Edwards; Neurofilament
19	MUELLER LAW LLC	19	staining; Sections are fragmented in
20	By: John Fabry, Esq.	20	recent recuts from Blocks A and B
21	404 West 7th Street	21	3 Article: Pathologic Evaluation of 47
22	Austin, Texas 78701	22	Explanted Vaginal Mesh:
23	(512) 478-1236	23	Interdisciplinary Experience From a
24	john.fabry@muellerlaw.com	24	Referral Center, Tovia M. Smith, M.D.,
25	Johnson Caracita Week	25	et al.
	Dogo 2		Daga 5
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2 3 4 5 6 7 8	APPEARANCES CONTINUED: For the Defendants Ethicon, Inc. and Johnson & Johnson: BUTLER SNOW LLP By: Nils B. (Burt) Snell, Esq. 500 Office Center Drive, Suite 400 Fort Washington, Pennsylvania 19034 (267) 513-1885	2 3 4 5 6 7 8	E X H I B I T S NUMBER DESCRIPTION PAGE 4 3-21-14 Expert Report of Dr. Zheng 66 5 Article: On the mechanisms of 67 biocompatibility, David F. Williams 6 Article: The Argument for Lightweight Polypropylene Mesh in Hernia Repair, William S. Cobb, et al.
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5	15	Article: Randomized Trial of 166	5	34 (Number skipped)
6		Tension-Free Vaginal Tape and	6	35 Figure 25 (left-hand side only) from 257
7		Tension-Free Vaginal Tape-Obturator	7	page 45 of Dr. Iakovlev's report
8		for Urodynamic Stress Incontinence in	8	36 Figures 22 and 23 from page 40 of Dr. 260
9		Women, Roderick Teo, et al.	9	Iakovlev's report
10	16	Figure 5 (top half only) from page 21 196	10	37 Invoice tally for Dr. Wenxin Zheng's 288
11		of Dr. Iakovlev's report	11	expert work on Carolyn Lewis v.
12	17	Figure 6 on page 15 of Dr. Zheng's 201	12	Ethicon, et al.
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21	20	Comparison of the In Vivo Behavior of 209	21	
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24		Surgery, Celine Mary, et al.	24	
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2	21	Group exhibit of 18 pages of 214	2	Green Legal Video, Tucson, Arizona. The court reporter
3		documents, nonsequentially numbered	3	is Bonnie Humm with Kathy Fink & Associates, 2819 East
4	22	Figure TE1 (top half only) from page 225	4	22nd Street, Tucson, Arizona.
5	22	58 of Dr. Iakovlev's report	5	This is the videotaped deposition of
6	23	Figure TE2 (left-hand side only) from 226	6	Wenxin Zheng in the matter of Jo Huskey and Allen Huskey
7	2.4	page 59 of Dr. Iakovlev's report	7	versus Ethicon, Inc., et al., Southern District of West
8	24	Figure TE5 from page 63 of Dr. 229	8	Virginia, Charleston Division, case number 2:12-cv-05201.
9	25	Iakovlev's report	9	The deposition is being held in the Westin
10	25	Figure TE7a (left-hand side only) from 230 page 65 of Dr. Iakovlev's report	10	La Paloma, 3800 East Sunrise Drive, Tucson, Arizona, on April 3rd, 2014. The time is 10:11 a.m.
11	26	Figure TE8 (left-hand side only) from 232	11	Will everyone present please introduce
13	20	page 67 of Dr. Iakovlev's report	13	themselves.
14	27	Figure TE9a (left-hand side only) from 236	14	MS. THOMPSON: Margaret Thompson on behalf
15	-,	page 68 of Dr. Iakovlev's report	15	of the plaintiffs.
16	28	Photograph by Dr. Zheng showing bark 245	16	MS. FITZPATRICK: Fidelma Fitzpatrick on
17		like areas	17	behalf of Jo Huskey.
18	29	Figure 24c from page 43 of Dr. 246	18	MR. FABRY: John Fabry. This case also or
19	•	Iakovlev's report	19	this deposition also involves Tonya Edwards as a
20	30	Figure 24d from page 44 of Dr. 249	20	plaintiff, and I represent her in this matter.
21		Iakovlev's report	21	MR. SNELL: Burt Snell representing
22	31	Photograph by Dr. Zheng using 252	22	Ethicon and Johnson & Johnson.
23		polarization	23	MR. SNOWDEN: Andy Snowden on behalf of
			24	Edding and Internal O. Internal
24	32	Photograph by Dr. Zheng showing bark 254	24	Ethicon and Johnson & Johnson.
24 25	32	Photograph by Dr. Zheng showing bark 254 like layer	25	THE VIDEOGRAPHER: The court reporter will

		P 10	_	D 12
	,	Page 10		Page 12
1	please	swear in the witness.	1	pathology.
2		WENXIN ZHENG, M.D.,	2	MR. SNELL: I don't think he understood
3	-	been first duly sworn by the Certified Reporter to	3	your question.
4		truth, the whole truth, and nothing but the	4	MS. THOMPSON: Yes.
5	trutn, t	estified as follows:	5	(By Ms. Thompson)
6		MS. THOMPSON: Good morning, Dr. Zheng.	6	Q. Have any
7		THE WITNESS: Good morning.	7	MR. SNELL: I can tell you he hasn't been
8	DVM	EXAMINATION	8	designated in any other cases.
9		S. THOMPSON:	9	She's asking have you been designated in
10		Would you please state your name.	10	other cases like the Huskey, Lewis, Edwards
11	A.	Wenxin Zheng.	11	THE WITNESS: Oh, no. I'm sorry. No.
12	Q.	And what is your current position?	12	MR. SNELL: meaning you have done a
13		I'm a professor of pathology as well as a	13	report?
14	-	sor of obstetrics and gynecology in the University	14	THE WITNESS: No.
15	of Ariz		15	(By Ms. Thompson)
16	Q.	And have you ever had your deposition taken	16	Q. So are there any other companies that have
17	before'		17	consulted you about being an expert?
18	Α.	Yes, I did.	18	A. No.
19	Q.	About how many times? Three to four times.	19	Q. So Ethicon is the only company that you're
20	A.		20	working with currently regarding mesh? A. Correct.
21	Q.	And how many of those involved mesh or	22	
22	•	ng related to mesh?		Q. Okay. And you understand today that we're
23		Previously there was one. And what was that regarding?	23	here on behalf of Jo Huskey and Tonya Edwards, who are plaintiffs in the federal MDL litigation with a trial
25	Q.	Regarding a TVT mesh.	25	taking place in West Virginia, correct?
23	A.	Regarding a 1 v 1 mesn.	23	taking place in West Virginia, correct?
		Page 11		Page 13
1	Q.	Page 11 Was that in the Lewis matter?	1	Page 13 A. Yes, I understand that.
1 2	Q. A.		1 2	_
	_	Was that in the Lewis matter?		A. Yes, I understand that.
2	A.	Was that in the Lewis matter? That's Lewis, yes.	2	 A. Yes, I understand that. Q. And you have offered opinions on Tonya Edwards that are contained in your report, correct? A. Correct.
2 3	A. Q.	Was that in the Lewis matter? That's Lewis, yes. And I believe that was in December of last Correct.	2	 A. Yes, I understand that. Q. And you have offered opinions on Tonya Edwards that are contained in your report, correct? A. Correct. Q. And in Jo Huskey's case, you are not able to
2 3 4	A. Q. year	Was that in the Lewis matter? That's Lewis, yes. And I believe that was in December of last Correct correct?	2 3 4	 A. Yes, I understand that. Q. And you have offered opinions on Tonya Edwards that are contained in your report, correct? A. Correct. Q. And in Jo Huskey's case, you are not able to provide specific comments about her pathology, correct?
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	Page 14		Page 16
1	A. Correct.	1	A. I don't remember exactly how many other kinds,
2	Q. So as we go through the day, if I ask you a	2	but this was the one name I think I kept in mind. That
3	question that you don't understand, like I just did a	3	was a long time ago, yeah.
4	minute ago	4	Q. And I assume that you evaluated the patients
5	A. Sure.	5	preoperatively for their procedures?
6	Q which wasn't a very good question, let's	6	A. Usually, yeah, we have to do that.
7	make sure you understand it before we go on. I'll be	7	Q. And you took care of them postoperatively?
8	happy to	8	A. Correct.
9	A. Sure.	9	Q. While they were in the hospital, I presume,
10	Q to rephrase. I'm not a pathologist. I	10	correct?
11	hope I do better than third grade, which I think is what	11	A. Uh-huh.
12	Mr. Monsour said he got to. I'm going to attempt to get	12	Q. And did you see them back in the clinic
13	at least to middle school. We'll see.	13	afterwards?
14	A. Okay.	14	A. Some of those patients, just by chance they
15	Q. So you, in addition to your pathology	15	are doing clinical follow-up. Then if I were there, then
16	expertise, you also trained in OB-GYN in China; is that	16	I will see.
17	correct?	17	Q. Did you also assist or participate in
18	A. Correct.	18	surgeries for prolapse?
19	Q. Tell me a little bit about that training	19	A. Oh, yes. That's a more common one than
20	A. Okay.	20	urinary incontinence in China at that time.
21	Q and how what the equivalent would be to	21	Q. And what procedures did you perform or
22	the U.S. as far as residency or postgraduate.	22	participate in for pelvic prolapse?
23	A. Okay. So basically after my graduation from	23	A. Well, usually that's either transvaginal
24	medical school in China, then I went to a hospital the	24	hysterectomy and/or transabdominal hysterectomy. I don't
25	hospital name is called Hospital of Obstetrics and	25	think at that time people were performing some kind of
	Dogo 15		Dega 17
1	Page 15	1	Page 17
1 2	Gynecology where I did my four years' residency	1 2	repair for those urinary for those prolapse patients.
2	Gynecology where I did my four years' residency training there. Within the four years, I have different	2	repair for those urinary for those prolapse patients. And doctors in China at the beginning usually will
2 3	Gynecology where I did my four years' residency training there. Within the four years, I have different rotations in different sections of obstetrics and	2	repair for those urinary for those prolapse patients. And doctors in China at the beginning usually will recommend to do more conservative surgery, conservative
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2 3 4 5	Gynecology where I did my four years' residency training there. Within the four years, I have different rotations in different sections of obstetrics and gynecology. So that's basically equivalent to the four years' residency training in U.S.	2 3 4 5	repair for those urinary for those prolapse patients. And doctors in China at the beginning usually will recommend to do more conservative surgery, conservative approach, rather than, you know, surgery to remove the organs.
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Page 18 1 Correct. pathology or GI pathology, they all belong to umbrella 2 Q. So what are your responsibilities as a pathology called surgical pathology. So we have to have 3 professor in the OB-GYN department? 3 surgical pathology training first. Then can go to 4 A. Mainly teaching. And also we -- I'm the different subspecialties. So I'm -- overall I'm a person running the gynecological tumor board conference 5 5 surgical pathologist. 6 6 (By Ms. Thompson) 7 7 And you consider yourself a GYN pathologist; Q. And surgical pathology is part of clinical 8 is that correct? pathology --9 Correct. 9 Yes. A. 10 10 Q. And your main interest in GYN pathology is -- correct? 11 tumors and particularly cancerous tumors; is that 11 A. We're dealing with all the specimen from the 12 correct? 12 surgeries. 13 13 MR. SNELL: Form. Do you consider yourself a clinician? 14 A. I think the main interest as a GYN pathologist 14 Yes. Pathologist is a clinician. 15 15 covers all the specimens, no matter it's cancer or And as a pathology -- as a pathologist, isn't 16 benign, you know, within the gynecological or woman's 16 observation one of the most important things that you do? 17 female genital tract. All these specimens come to my 17 A. It's not observation. I think in the clinical 18 attention or come to my program. 18 side, we provide diagnosis for patient care. That's the 19 (By Ms. Thompson) 19 main thing. 20 20 Q. At least as far as publications go and Q. So you provide diagnoses for patient care lectures, presentations, wouldn't you agree with me that 21 21 based on examination of the pathology? most of those revolve around tumors, GYN cancers? 22 A. Based on examination of the specimen we 22 23 23 A. Correct. receive and also, you know, relevant clinical 24 Q. Why did you choose pathology as a medical 24 information. 25 25 specialty? Q. Where do you get your relevant clinical Page 19 1 A. That's an interesting question, because my --1 information? 2 2 Thank you. A. Typically these information will be written on 3 -- my training background as OB-GYN resident the requisition sheet, and then some of them through at that time when I was in China. So after I came to communication with the clinicians. And like a special 5 United States, I think I liked to do more form, like a tumor board, is one of the common forms to academic-related work. Therefore, pathology gives me a 6 take care of cancer patients. 7 better opportunity to do both clinical care, patient Q. So when a specimen comes from the operating 8 room, it is accompanied with a requisition form, correct? care, as well as research. 9 9 And then after pathology training, in A. Correct. relation to my OB-GYN training, so it's very natural to 10 10 Q. And that requisition form has a diagnosis or a 11 put them together to do GYN pathology and become a 11 tentative diagnosis when it comes to you, correct? 12 12 specialist. A. No. They will contain relevant clinical 13 Q. It made sense to combine them? 13 information, basic information for the patients, and 14 Right, right. clinical observations. They usually do not have a 15 And there are different areas of pathology, Q. typical diagnosis in the clinical requisition sheet, 16 correct? 16 because otherwise why they need a pathologist to help 17 17 them? A. Correct. 18 18 Q. And what is the area that you consider They have questions whether this may 19 19 yourself in? Not the specialty area, but surgical represent some kind of disease or what kind of particular 20 pathology or experimental pathology, laboratory 20 area they try to resolve. Then usually they have 21 pathology? I'm not sure I'm getting those right, but 21 limitation from clinical perspective. They can't resolve 22 22 what do you consider yourself? that. That's why they need a pathologist's opinion to

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give them more definitive answers for that.

Q. But isn't it true that every surgical specimen

comes to you regardless of whether the doctor had a

A. Basically within the pathology field, like GYN

MR. SNELL: Form.

Go ahead.

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Page 22 Page 24 1 question about the diagnosis or not? (By Ms. Thompson) 2 A. Correct. Many of them they don't have the 2 Q. Yeah. I got one in. Okay. 3 diagnosis. They just give you a specimen, tell you the 3 4 clinical problem. Then you will help them. Fair enough. And pathologists generally don't 5 perform your own complete chart review; is that correct? Q. So a clinical problem could be a symptom? 6 A. In the usual situation, we do not review those A. Right. 7 7 complete medical records. Q. Like pain or -- correct? 8 A. Yes. Pain or bleeding or, you know, 8 Q. Would you agree with the statement that the 9 abnormal -- any kind of abnormalities. pathologist's interpretation is based on his 10 Q. But at times, at least, the surgeon knows what understanding of the clinical context and resulting 11 the diagnosis is and is just sending you -- sending the 11 questions to be answered? 12 12 specimen to you for confirmation; is that correct? A. Yes. That's a good statement. 13 13 MR. SNELL: Form. Q. I think that's basically what we just said, 14 That's not true, because they -- for instance, 14 correct? 15 15 they may suspect the patient may have a cancer, right? A. Correct. 16 But a cancer diagnosis has lots of other specific 16 How many mesh specimens have you evaluated? 17 17 So far? information, such as cancer grade, cancer type, primary A. 18 18 sites of the cancers. Q. So far. 19 So lots of information may be relevant to 19 A. Within basically I think around three years, around three years, I start to see more mesh specimens 20 future clinical decision for the management. They don't 20 21 know at that time. Therefore, you need a pathologist to coming. So overall I can estimate it's about maybe more 22 give -- to provide such information. 22 than a hundred cases I have examined in total. 23 23 (By Ms. Thompson) Q. And I think in the Lewis deposition in 24 Q. But if you have a uterus that the surgeon is 24 December, you said it was somewhere between 156 and 312. 25 sending you for fibroids --There was some discussion about how you came up with Page 23 Page 25 those numbers. 1 A. Yes. 1 2 2 -- chances are it's going to have fibroids, Are you -- now can you give a better 3 3 estimate that it's -correct? 4 MR. SNELL: Form. 4 A. I said basically you can see every week I 5 A. Correct. But also there are chances for receive like one to two samples of these mesh specimens. 6 nonfibroid or even it's a malignant cancer or metastatic And then if you have 50 weeks in a year, then it's 7 cancer to the uterus. So, therefore, they are not sure. already 50 to 100 cases. So the minimum is about maybe 8 just over a hundred. The maximum can go as more as you (By Ms. Thompson) 9 9 Q. Fair enough. When surgeons, GYN surgeons do can go, like 300. I think that's -- but I just really 10 10 vaginal repair surgery and remove part of the vaginal don't know the exact number. 11 mucosa, as in an anterior colporrhaphy, do you get that 11 Q. What are the usual -- what are the most common 12 12 specimen? indications for mesh removal that you see? 13 13 A. Yes. We usually get -- those repair A. We have mesh -- like prolapse mesh surgeries, we get specimens like just the vaginal mucosa, complications, such as infection or erosion. Or 15 sort of redundancy vaginal mucosa, and we will evaluate 15 sometimes a patient chart or requisition sheet will list 16 that. 16 pain. Those are -- and then also these days more 17 17 commonly is for legal purpose without any symptoms. It Q. Do you look at those histologically or not? 18 18 says the specimen is for legal purpose. A. Yes. We do every time. 19 19 Q. Okay. But that would be one example of a case Q. So you are telling me that you're getting specimens that the reason they're having their mesh where the doctor really isn't looking to you for a 20 21 diagnosis of redundant vaginal mucosa, right? 21 removed is for legal purposes? 22 22 MR. SNELL: Form. Many of them. 23 A. Right. Those are -- usually there is not much 23 What percentage would you say that is? 24 abnormality there. 24 I think these days probably over 50 percent at 25 25 least.

Page 26 Page 28 1 Q. And that's over what period of time? 1 A. I think, based on my understanding, at least 2 A. It's particularly within the last two years' some of those cases, yes, definitely go that way. 3 3 Q. Who are the doctors that are doing that in period. 4 MS. THOMPSON: And I'm going to, of 4 your facility? 5 5 course, request the records on those meshes that he's A. We have Christian Twiss, T-W-I-S-S, and also, 6 Dr. Hatch, Kenneth Hatch. These are the main doctors. A evaluated over the last three years. 7 7 MR. SNELL: We're not going to produce few other doctors occasionally have several other 8 those. Those are his own patients. That's hospital specimens, but these are the two main doctors. 9 9 stuff. Q. And you believe that Dr. Twiss -- I'm not 10 MS. THOMPSON: Okay. Then we'll take back 10 pronouncing their names correctly, I'm sure -- and Dr. 11 Dr. Iakovlev's that he did with redacted information, but 11 Hatch are removing mesh at the request of lawyers? 12 12 we'll discuss that. A. Because it's written clearly in the 13 requisition sheet. 13 (By Ms. Thompson) 14 14 Q. And what do you mean by remove for legal Q. You mentioned prolapse mesh. How many... 15 15 So you, I think, said just a minute ago 16 A. When we receive the specimen, then as we 16 that all surgery has a reason. Do you consider legal 17 mentioned typically there is a requisition sheet. And 17 purposes a reason for surgery --18 within the requisition sheet, clinical history, and then 18 MR. SNELL: Form. 19 they will say for legal purpose. 19 (By Ms. Thompson) 20 And those specimens we have a special way 20 Q. -- in your experience as a pathologist and 21 OB-GYN? 21 to handle, because typically if the specimen is large 22 22 enough, we will take a portion of the specimen for A. I think so some of these cases because of the 23 23 routine process. Then the remaining portion we'll submit legal purpose for the surgery. Why, you know, the law 24 to our legal office. Within our medical center, we have office want them to have this surgery done, I have no 25 a special office to handle all the potential legal idea. Page 27 Page 29 purposes of all these cases. 1 1 Q. Would that not be considered unnecessary 2 Q. But you're telling me these are not patients surgery, in quotations? 3 that have other symptoms and they're just wanting you to 3 MR. SNELL: Form. handle it in a particular way because of legal purposes, 4 A. I'm not in the position to make this comment, 5 but that's the only reason that they're having the mesh because I'm in the position, whatever specimen come to 6 removed? our department, then we will provide opinion. That's my 7 A. I'm not sure, because they usually do not put position, I think. What's the reason why they are going 8 what kind of underlining reason for legal purposes. to do this, that will be beyond my, you know, ability to 9 9 Q. And would you agree with me that it would be make judgment. 10 medical malpractice for a surgeon to have a patient 10 MR. SNELL: And he has not been put up as 11 undergo major surgery and general anesthesia for no 11 a surgical expert on standard of care. 12 12 reason? MS. THOMPSON: Understand. 13 13 MR. SNELL: Form. MR. SNELL: We have urologists and 14 A. Yeah. Typically any surgery there is a 14 urogynecologists who will opine on that. 15 15 reason, typically. But I do have seen those mesh, you And I'll put one other thing on the 16 know, specimens without any complaints, and basically the record. Your request, the cases he has seen obviously 16 17 17 doctors -- we have -- our clinicians sometimes we are those that have arisen in the context of his normal 18 18 communicate these days. They also noticed many requests duties and work as a pathologist.

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office to get this mesh removed?

(By Ms. Thompson)

remove the mesh?

direct the patient see them because some law office call

them and say, Can you go to, you know, certain medical

Q. So you're saying that doctors are removing

mesh because the lawyer sent a patient and asked them to

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Dr. Iakovlev, on the other hand, testified

that he has been sent numerous meshes from plaintiffs'

lawyers and that he has been paid for his evaluations by

those plaintiffs' lawyers, and he enters those plaintiff

lawyer-sent meshes into his hospital system; thereby

trying to create, apparently, some type of HIPAA issue.

So there's crystal clear differences between Dr. Zheng

	D 20	T	
	Page 30		Page 32
1	and Dr. Iakovlev.	1	I assume you have that.
2	MS. THOMPSON: I believe you requested	2	(Marked for Identification:
3	records from both the ones received from litigation and	3	Deposition Exhibit No. 1)
4	the ones that came through the hospital. But we can go	4	MR. SNELL: Can I get a copy, please?
5	back and look at that.	5	MS. THOMPSON: I thought you would have
6	MR. SNELL: We did not request medical	6	one, so I just did two of those.
7	records on patients who had nothing to do with	7	Actually, oh, I do have three.
8	litigation.	8	(By Ms. Thompson)
9	MS. THOMPSON: And I'm not requesting	9	Q. Have you seen this document before, Dr. Zheng?
10	MS. FITZPATRICK: You did.	10	A. I think I have seen this kind of document,
11	MS. THOMPSON: You did.	11	yes.
12	MS. FITZPATRICK: You should go back and	12	Q. I'm talking about this particular document
13	look at Donna's letter which clearly requested everything	13	have you seen?
14	that Dr. Iakovlev had looked at. And it was certainly	14	A. Oh. I don't remember to see this particular
15	not limited to what had been received from plaintiffs.	15	document.
16	So I don't think that we need to waste the time here.	16	Q. What did you do to prepare for the deposition
17	But that's completely inaccurate what you just said, so	17	today?
18	we'll put that on the record.	18	A. What did I do for the for this deposition?
19	MR. SNELL: And I believe you're being	19	Q. Yes.
20	inaccurate. But whatever. So go ahead.	20	A. I reviewed my report. I received instruction
21	(By Ms. Thompson)	21	from Ethicon lawyers to bring all the material, whatever
22	Q. You mentioned with the prolapse meshes you see	22	I have I can dig out for the case. Then even including
23	requisitions listing infection, correct?	23	some of the references I used for Lewis case. So I
24	A. Yes.	24	brought everything here.
25	Q. And erosion, correct?	25	Q. And where are the materials that you brought?
	Page 31		Page 33
1	A. Yes.	1	A. Those are the materials. Boxes of these
2	Q. And pain, correct?	2	material.
3	A. Correct.	3	Q. Oh, okay.
4	Q. What percentage of your mesh cases that you	4	A. See them?
5	receive in your lab are slings and not prolapse mesh?	5	MS. THOMPSON: So I guess we'll where
6	A. These days I think more than prolapse.	6	are the boxes?
7	Overall how many exactly, I have no idea. But majority	7	MR. SNELL: There's multiple boxes over
8	of the meshes these days are slings.	8	there
9	Q. And you mentioned the number that have listed	9	MS. THOMPSON: Oh, the boxes on the cart?
10	on their requisition the reason for surgery or the reason	10	MR. SNELL: and a hanging bag.
11	for pathological evaluation is legal purposes. What	11	MS. THOMPSON: I guess we will mark those
			_
12	about the others? What are the most common symptoms or	12	boxes as Exhibit 2, and we'll go through them at some
	complications listed for slings?	12 13	boxes as Exhibit 2, and we'll go through them at some point during the day, but
12	complications listed for slings? A. I don't have any statistics for that. But		boxes as Exhibit 2, and we'll go through them at some point during the day, but MR. SNELL: Here, I'll let you give that
12 13	complications listed for slings? A. I don't have any statistics for that. But those are quite common. Which one is the most common, I	13	boxes as Exhibit 2, and we'll go through them at some point during the day, but MR. SNELL: Here, I'll let you give that to her, too. That's your stuff.
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12 13 14 15 16 17 18 19 20 21 22 23	complications listed for slings? A. I don't have any statistics for that. But those are quite common. Which one is the most common, I don't know. I can't give you that accurate information. Q. Would you say it would also be the same as for prolapse: Infection, erosion and pain? A. Many of the sling specimens they do not provide specific information. Some of them they do, but a majority of them no information except for legal purposes. And just or sometimes just says suburethral sling, that's it.	13 14 15 16 17 18 19 20 21 22 23	boxes as Exhibit 2, and we'll go through them at some point during the day, but MR. SNELL: Here, I'll let you give that to her, too. That's your stuff. MS. THOMPSON: John, do you want to put that on the boxes? MR. FABRY: Can we go off the record for a second? THE VIDEOGRAPHER: Off the record 10:45. (Discussion held off the record.) THE VIDEOGRAPHER: On the record 10:46. (By Ms. Thompson)

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1	bring, everything, I guess, related to this case; is that	1	record just so we're clear. The electronic files and the
2	correct?	2	discs and CDs, he has brought those, too. They're in
3	A. Correct.	3	that hanging bag. There are multiple CDs over there with
4	MR. SNELL: Form.	4	all the electronic files.
5	(By Ms. Thompson)	5	MS. FITZPATRICK: Can we have those?
6	Q. And do you have those materials in an	6	MR. SNELL: No. Those are his originals.
7	electronic form as well?	7	MS. FITZPATRICK: Okay. We'll go through
8	A. I don't believe I have everything, but I do	8	them at a break and figure it out.
9	have several, I think, discs or so. But I'm not sure.	9	THE WITNESS: You can take a look at
10	Some of these discs containing medical records informa-	10	whatever you feel like.
11	tion and may have not completely or complete information	11	MS. THOMPSON: Okay. I'll put that on the
12	for everything I have. So that's the situation.	12	box, I guess, and we'll look at everything at a break.
13	But many of them, either medical records	13	THE WITNESS: Okay.
14	or references I used, I read and then piled them up in a	14	(Marked for Identification:
15	binder. Okay? Then also these are the relevant	15	Deposition Exhibit No. 2)
16	information, like expert's report from Dr. Pramudji	16	(By Ms. Thompson)
17	regarding Huskey case. And then the other one is expert	17	Q. Did you meet with the lawyers in preparation
18	report from Elizabeth Kavaler. I don't know how to	18	for the deposition?
19	pronounce that correctly. But those are the I have	19	A. I think yesterday, Andy, yes, I met Andy in my
20	read.	20	office.
21	And many of these references regarding TVT	21	Q. And when was that?
22	mesh or TVT-O or TOT mesh. And then I also printed out	22	A. That's yesterday morning.
23	the pictures in a raw form. Basically all these pictures	23	Q. For how long?
24	I took from the slides I received, I reviewed, for the	24	A. About two hours.
25	purpose of to present my points. And I think many of	25	Q. And what did you review during that meeting?
	Page 35		Page 37
1	them some of them I constructed those pictures into a	1	A. So basically we reviewed my expert report to
2	PPT form so make people can understand it better.	2	see do I have any questions are not clear for the case.
3	Otherwise these loose individual pictures without the	3	I think those are the procedures. Then we went through
4	text makes everybody feel difficult. That's the		
	test makes every soay reer amirean. That's the	4	the pictures or the stuff I printed out, those pictures.
5	combination. I have those PPT PowerPoint also printed.	5	-
5 6	• •		the pictures or the stuff I printed out, those pictures.
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6 7 8	combination. I have those PPT PowerPoint also printed. That's for everybody's convenience, basically. Those are the things. Later on you may examine that. Q. So that smaller box that you've brought with	5 6 7 8	the pictures or the stuff I printed out, those pictures. Just went through these pictures. It takes a long time for the pictures. Q. Is that all? A. Yeah, I think that's it.
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	combination. I have those PPT PowerPoint also printed. That's for everybody's convenience, basically. Those are the things. Later on you may examine that. Q. So that smaller box that you've brought with you are articles that you relied upon, correct? A. Yeah. Many of them I read and then relied upon, that's true. Q. And two reports of the defense experts in this case, Dr. Kavaler and Dr. Pramudji, correct? A. Yeah. Those I think these two clinicians' expert report I have just read, because before I wrote my expert report, I was not aware of this. That's okay. Q. So you did not rely on those two expert reports for any of the opinions in your A. Correct. Q own report, correct? A. Within the report. MS. THOMPSON: Let's go ahead and mark your box as Exhibit 2.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	the pictures or the stuff I printed out, those pictures. Just went through these pictures. It takes a long time for the pictures. Q. Is that all? A. Yeah, I think that's it. Q. And have you met with the lawyers prior to meeting yesterday with Andy? A. Prior to yesterday, you mean? Q. Correct. A. I think some times ago Andy no, I don't think we have other meetings, because we know each other. And I received multiple we have several phone calls. And then when I receive material, if I'm not clear what are they, then I call him to clarify. Q. So how do you know Andy? A. For the Lewis case, I think. Q. So you worked with him on the Lewis case? A. The Lewis case, too, correct. Q. How much have you been paid by Ethicon to serve as an expert witness?

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	Page 38		Page 40
1	Q. And how much for the Huskey and Edwards cases	1	on Ms. Edwards?
2	so far?	2	A. Some of the yeah. Some of the opinions
3	A. So far I did not bill yet.	3	rely on based on my experience, that's true.
4	Q. Can you estimate how many hours you have	4	Q. And you would expect
5	spent?	5	A. Sure.
6	A. It's roughly about 40 to 50 hours I have spent	6	Q anyone's experience to help them when
7	so far.	7	they're formulating opinion on a similar case, correct?
8	Q. And how much do you charge per hour?	8	A. Yes.
9	A. Six hundred dollar per hour.	9	Q. Did you bring photos of the other mesh cases
10	Q. And is that for any kind of work or is it	10	that you've seen over the last three years?
11	A. Yeah. For all these readings and evaluation	11	A. No. It's not related to these two patients.
12	of reports and review for like the deposition issues or	12	MS. THOMPSON: We're going to request all
13	court issues usually or travel is up to 10 hours. I	13	the photographs that you have taken on any mesh cases
14	can't charge when I sleep.	14	over the past three years.
15	Q. I think that's a good rule.	15	MR. SNELL: And we'll oppose.
16	A. Okay.	16	Go ahead.
17	Q. Although we all know people that do. I didn't	17	THE WITNESS: I have
18	say that.	18	MR. SNELL: Those are
19	So you did you bring all the photos	19	THE WITNESS: I usually do not take any,
20	all right. So let me go back. Looking at Schedule A on	20	so
21	that notice of deposition, which is the list of all the	21	MR. SNELL: Those are his hospital
22	things to bring do you have that with you, Dr. Zheng?	22	patients, not litigation, lawyer-referred cases for which
23	It's page 3.	23	he has been paid by lawyers. Go ahead.
24	A. Page 3.	24	MS. THOMPSON: And you requested from us
25	Q. So you're saying that what you've produced	25	and we provided all the photos taken by Dr. Iakovlev
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	Page 39		Page 41
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	here is contained in this box, those boxes, and the discs that you brought, correct? A. Correct. Q. Did you bring billing records? A. No. I sent send my billing records to my lawyer, but I did not bring this time. MS. THOMPSON: Do we have billing records for Dr. Zheng? MR. SNELL: I think we have a summary of invoices. Do we have a summary of invoices or some type of tally? MR. SNOWDEN: Yeah. We can print it off. MR. SNELL: Yeah. We'll print it off. MS. THOMPSON: Yeah, we would like to have that. MR. SNELL: Okay. (By Ms. Thompson) Q. Looking at number until we we may come back to this after we've had a chance to look through some of the boxes. But going down to 11, does your experience with looking at over a hundred mesh cases over the last	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	on all mesh, regardless of whether they were litigation or not. And Dr. Zheng has certainly been paid significantly for his work. MR. SNELL: Move to strike. Go ahead. THE WITNESS: Can I explain that? MR. SNELL: No. She didn't give you a question. She'll pose a question. (By Ms. Thompson) Q. So you did not bring any photos other than the ones on the slides that you took of Ms. Edwards, correct? A. What I want to say is, for my routine work, I do not take microphotographs for these other meshes, except somebody request us, you know, some kind of photographs. Then we provide. We don't take microphotographs. We have slides for every case that will be kept for 10 years, typically, in our hospital. Then the specimen, if it's not for legal purpose, will be throw away after the report after two weeks after the report is generated. MS. THOMPSON: We'll request the slides as well with patient information redacted.

Page 42 Page 44 1 THE WITNESS: But I'm not sure I --1 A. Uh-huh. 2 MR. SNELL: You don't have to respond to 2 Q. You have never published anything on 3 that. She's making a request, and we will oppose it. polypropylene mesh; is that correct? 3 Go ahead. 4 A. Correct. (By Ms. Thompson) 5 5 Q. And I believe you just told me that you have 6 Q. And when you said that you only take pictures 6 not lectured on mesh? 7 when it's requested, what do you mean by that? A. Correct. 8 A. For instance, this Lewis case, if I have 8 Q. Did you issue a pathology report on 9 slides, then I will take pictures, because I have to 9 Ms. Edwards? 10 present my points or my opinion. 10 A. No. Because these slides came for review 11 And for this case, for Edwards case, also 11 consultation, not in our medical system. 12 I have multiple slides. So when I review that, then I 12 Q. Who wrote your expert report? have to present my opinion based on what I have observed. 13 13 A. I wrote by myself. 14 Therefore, the pictures are useful. So then at that time 14 What are the indications for mesh removal, in I take pictures. 15 15 your opinion? 16 Q. Have you ever lectured or presented on the 16 MR. SNELL: Form. topic of GYN mesh, either in your hospital or your 17 17 A. Indications typically for mesh removal, based 18 division or elsewhere? 18 on my understanding, for medical purposes is like 19 A. No. 19 erosion, infection, or constant pain exceed usual level 20 Q. Never lectured to medical students about mesh 20 than patient cannot tolerate and possibly related to the 21 21 and its properties? mesh. Therefore, those are the more common medical 22 A. I will briefly mention those. Those can be 22 reasons for the removal. 23 23 specimens we routinely received. But that's it. We (By Ms. Thompson) don't go that far, because medical students usually they 24 Q. Does mesh cause constant pain that can't be are not interested in this kind of topic. They have too relieved? Page 45 Page 43 much to learn. A. Pain is a complicated situation, because that 1 1 2 involves multiple reasons. So it's very hard to say, Q. What about to OB-GYN residents or -- how about to OB-GYN residents? 3 because in the -- in our OB-GYN practice, we have A. OB-GYN residents, usually these are mainly patients complain of pelvic pain. That's very common. 4 clinical side knowledge or diseases or situations. So it Even without mesh they have those symptoms. 6 will be given by the clinicians rather than pathologists. 6 And then among those pelvic-pain patients, 7 O. Do OB-GYN residents do a rotation through the we have like 50 percent of those cases we have evidence 8 8 pathology department? to support there is a reason to explain pain. However, 9 9 A. Usually they don't. But we do have two kinds additional 50, half of the patients, have no histological 10 of weekly conferences. One is in the Wednesday morning. 10 evidence to support. So it's difficult to interpret why 11 Then depending on the topic, our pathologists will join 11 the patient feel pain. 12 12 their conference to present pathology component. And Q. I'll ask my question again. Can mesh cause 13 then the other conference, the GYN tumor board, that 13 pain that is constant and can't be relieved? 14 requires multispecialty, you know, doctors to join it. 14 MR. SNELL: Objection. Form. Asked and 15 15 Q. And mesh has never been a topic for the weekly answered. And beyond the scope if you're asking him from 16 conferences, joint conferences? 16 a surgeon's perspective. He's only here on the pathology. 17 17 A. No. Mesh has never been a formal topic for MS. THOMPSON: He told me that he got 18 18 education purpose. requisitions for mesh removal that stated it was from 19 Q. When were you first contacted by Ethicon? 19 patients who had constant pain that could not be A. I think probably that's at the end of two 20 relieved. 20 years ago, 2012 something. 21 MR. SNELL: That's fine. That's what he 21 Q. And what case did they consult you on 22 22 got as a pathologist. 23 23 initially? MS. THOMPSON: I'm asking if mesh can 24 A. That's the Lewis case. 24 cause that pain. I believe that would be what a 25 The Lewis case? pathologist would tell the surgeon.

Page 46 Page 48 1 The pathologists provide pathology report. 1 MR. SNELL: This was marked as 3? THE WITNESS: Uh-huh, yes. 2 They usually do not provide a statement says the finding 2 3 (By Ms. Thompson) can explain the clinical pain. There is no -- usually do 3 Q. So you have seen this article? 4 not do that, except obvious evidence. For instance, Yes. I think I noticed the title sounds 5 there is like infection, abscess formation there. 6 familiar. And then the doctor clinician will ask, Do 7 you think this abscess may be related to her pain? This O. And I would think it would be of interest to 8 is obvious I say usually. You don't have to say this you as a GYN pathologist that's looking at mesh, correct? 9 particularly the findings are related to the clinical 9 10 pain. They can use the findings to interpret by 10 We can just look in the abstract under Q. 11 themself. 11 results. And could you just read the third sentence 12 12 there that begins with, Specimen requisitions. Because, as I say, pain is a very 13 complicated situation. It's a personal feeling. Some of 13 A. Specimen requisitions listed clinical history 14 these pain can have a reason to explain. Some of those 14 as pain, 28.4 percent; vaginal mesh erosion, 15 15 pain do not have a reason to explain. 24.5 percent; then erosion, 17.6 percent; then urinary 16 (By Ms. Thompson) 16 retention 5.9 percent; and infection, 2.9 percent. 17 17 Q. So at least in -- at the University of Q. So you're telling me that as a pathologist you 18 are not able to tell whether a patient having pain and 18 Michigan, the surgeons filling out requisitions for 19 you receive a mesh specimen, whether it's related to the 19 pathologic examination of mesh specimens that they 20 pain or not? 20 removed from women thought that these patients' pain was 21 21 coming from the mesh, correct? A. Correct. But let me add something. But if 22 MR. SNELL: Form, foundation. 22 the histological evidence or pathological evidence is 23 23 obvious, then that can be consistent with the clinical A. Yeah. Based on clinical symptoms or clinical symptoms such as pain. If there's no, you know, evidence information as listed. 25 to support, then usually there's no linkage between the Page 47 Page 49 finding -- pathological finding and the clinical pain. (By Ms. Thompson) 1 2 Q. As in an abscess? 2 Q. Okay. Beginning from when a specimen leaves 3 A. Right. 3 the operating room and comes to your lab, can you go 4 Q. Are you aware that in the published literature through that process with me step by step? on explanted vaginal mesh that the most common indication A. Okay. So after the surgeon remove the 6 is pain? specimen or remove the part of the organ or tissues, then 7 MR. SNELL: I'm going to object to the these tissues have two forms situation. One is just as a 8 form on that one, and I'm going to object to the 8 fresh tissue coming to pathology lab. The other is they 9 foundation on that one as well. 9 put the tissue into formalin for the preservation issue. 10 Go ahead. 10 Then we receive these either fresh or the specimen in 11 A. I'm not aware of such particular publications 11 formalin, two kinds. 12 12 saying the most common reason for mesh removal is pain. Q. And is -- I assume that someone has observed 13 MS. THOMPSON: I'll go ahead and mark an 13 the gross specimen before it's placed in formalin or --14 exhibit. Are we on Number 3? Exhibit Number 3. And I 14 A. No. 15 15 apologize for the highlights on this article, but it's Q. -- processed? 16 color copied, and they showed up. 16 A. No. Usually the surgeons just by themself or 17 17 Hang on. Thank you. Sorry about that. the nurse in the OR, they will put the specimen into 18 (Marked for Identification: 18 formalin or just fresh, these two different conditions. 19 19 Deposition Exhibit No. 3) So when we receive those specimens, then from pathology 20 (By Ms. Thompson) 20 point of view, we will record patient information. Then 21 Q. I just handed you an article published by the 21 we have to label the specimen and assign a case number. pathology group at Michigan. Are you familiar with that 22 22 Then they will be recorded in the system first. group? 23 23 Then afterwards our residents or PA start 24 A. I'm not familiar with that group, but I think 2.4 to so-called gross examination of the specimen, describe I have seen this article. what kind of specimen we received. Those including the

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- size and the shape and even sometimes the weight of the specimen and then texture or particular features of the
- 3 specimen.

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- Q. So in your facility, at least, the residents or a PA describes the gross appearance?
 - The usual situation.
- 7 Q. And then it goes to the next step?
- 8 A. Then after so-called gross -- during the gross
- 9 time, then the residents or PA will take representative
- 10 sections, or some of them, if the sample is small enough,
- 11 they will submit everything for microscopic examination.
- Q. And when the residents submit it for microscopic examination, they are putting it in a paraffin block; is that correct?
- A. Then the tissues will go through a tissue processor so-called, a tissue processor which convert
- 17 gross specimen into a paraffin block. That takes also
- 18 long time.
- Q. And that's called what again?
- 20 A. Tissue processor.
- Q. Tissue processor?
- 22 A. Yeah.

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- Q. So the resident, him- or herself, is not
- 24 actually putting the specimen into paraffin? That's done
- by a processor, by a machine?

- Page 52
 - 2 tissue sections to try to expose the most -- potentially

we have to show like the length and the thickness of the

- 3 most interesting area later on will be showed on the
- 4 slides, so there are a few rules there. But in general,
- 5 yes, just put into cassette.
- 6 Q. And then the tissue processor, is it -- am I
- correct that the tissue processor, in laymen's terms,
- $^{\, 8} \quad \text{just dips the cassette into the paraffin, into the liquid}$
- 9 paraffin?
- A. No. The tissue processor is basically a so-called fixation and dehydration process. So that
- means it makes the tissue fixed, number one. And
- meanwhile in this process also excessive water and
- meanwhile in this process also excessive water amount within the tissue or cells will be removed, because these
- waters cause artifact. It makes tissue very difficult to
- cut. So the water amount have to be removed.
- 17 Q. Okay.
 - A. So that's the overall purpose for tissue
- 19 processor.

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- Q. So there are steps involved, correct?
 - A. Multiple steps.
- Q. And typically you would not see a specimen
- 23 until it's already been sectioned and placed on slides,
 - correct?
 - A. Then I should add additional one. When I see

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- 1 A. They have to take the sample and put into
 - cassette, a plastic cassette. The cassette is labeled
- 3 with particular patient information. For this situation
- 4 it's a case number, basically.
- 5 Then these cassettes containing tissues
- 6 will be put into the tissue processor. Then the tissue
- 7 processor automatically runs including lots of chemicals
- 8 there to make the tissues easy to be cut. Otherwise the
- 9 fresh tissue is difficult to cut.
- Q. Okay. So let me go back, because I'm trying
- 11 to understand this.
- 12 A. Sure.
- Q. I missed my pathology rotation when I was out
- 14 on maternity leave.
- So the resident puts the sample, either
- 16 the whole specimen or a sample based on the size, into a
- 17 cassette?

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- 18 A. Correct.
- Q. And I assume they just drop it in the
- 20 cassette; is that correct?
- 21 A. Yeah. They -- yes. They put it in the
- 22 cassette, correct.
- Q. They don't manipulate the specimen in any way
- 24 when they're putting it in the cassette, do they?
 - A. They have -- there are several rules, because

- gross specimens in several conditions. One is the
- 2 specimen is coming for intraoperative consultation.
- 3 Immediately when they -- even before they remove out, I
- 4 sometimes go to operating room and take a look. And then
- 5 they are going to ask me, What do you think? What should
- 6 I do for this? Then I will provide my opinion. All
- 7 right? So-called intraoperative consultation.
 - Then the second --
- 9 Q. That would be like a frozen section, correct?
 - A. Then the second --
- Q. Oh, that's the second one?
- 12 A. -- one is the frozen section. Frozen section,
- they give you the specimen, then let you evaluate, give
- 14 them the preliminary diagnosis immediately, basically
- within 20 minutes. So we will do frozen section
- 16 evaluation.
- Q. And would you agree that typically those
- 18 situations arise when the surgeon is trying to determine
 - whether there's a malignancy or not --
 - A. Right.
- Q. -- that could influence the surgery itself?
 - A. Right. The extensiveness of the surgery.
- 23 What shall we -- how far they can go.
- Q. Because typically, processed in the usual
 - fashion, it would take two to three days to come out?

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Page 54

- 1 A. Right. And patient will go back. They cannot 2 just open the abdomen and close, then next day open 3 again. They cannot do that.
 - Q. And what is done by residents in your teaching hospital in other hospitals might be done by a pathology technician or assistant; is that correct?
- 7 A. Yes. They usually do gross examination and record what they have seen and what kind of section they are taking. Then reading the microscopic slides together 10 with the attending.

For mesh issue, the same thing. They are going to read together with me. Then if I have questions at that time, will ask, and they will provide additional information.

Q. So the pathologist in a typical community hospital like yourself, except in the situations where you're having an intraoperative examination or a frozen section, would not see the specimen itself until the slides are processed, correct?

20 MR. SNELL: Form.

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21 A. Yeah. In usual situations, the attendings 22 will not see the specimen until the slides come out. But 23 in community hospitals, there is -- typically they do not have residents, so the pathologist or the attending pathologist, they have to gross the specimen by themself.

1 (By Ms. Thompson)

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sling.

Q. When you get a mesh sample into your lab, you

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Page 57

- usually don't know the name of the mesh, correct? 3
- 4 A. Usually we don't know, because they do not 5 label clearly.
- 6 Q. And would you agree with me that -- and by that I mean the manufacturer of the mesh or the name of that sling or prolapse mesh piece.
- Correct. But occasionally they do mention TVT 9
 - Q. But if they mention TVT sling, would you know whether that was a TVT Retropubic or a TVT Obturator or a TVT Exact or a TVT Abbrevo or all the various different permutations of TVT?
 - A. We don't know.
 - Q. So when you're looking at all the different -and I'm sure you've seen where TVT has just been used in a generic context, like Kleenex, right, that could be referring to a sling from another manufacturer, correct? MR. SNELL: Form.
 - A. I think so. This is correct.
- 22 (By Ms. Thompson)

paying attention.

Q. And does that, not knowing the manufacturer of the particular mesh that you're looking at, impede your ability to observe and analyze the specimen?

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- So at that time they will see the specimen.
- 2 (By Ms. Thompson)
- 3 Q. Okay. So it's actually different in community
- hospitals than in academics. You don't see it -- as a
- professor, you don't see it until the slides are
- 6 processed, correct?
 - A. Usually we don't need to see until we are
- 8 asked. They say, okay, I don't know what to do for this.
- 9 Can you come? Okay, we will come.
- 10 Q. And it's my understanding that you see all the 11 mesh that's coming from a GYN surgeon, correct?
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- 13 Q. So you typically do not see hernia mesh 14 samples, abdominal wall hernia mesh samples?
- 15 A. I don't see that, because that belong to 16 general surgical practice.
- 17 Q. And that's because in an academic setting, you 18 have a specialty in GYN --
 - A. We have subspecialty.
- THE COURT REPORTER: Doctor, you need to 20
- let her finish her question before you start your answer. 21 22
 - You're starting to overlap.
- 23 MS. THOMPSON: We're both doing that a 24 little bit, so we'll work on it together.

- A. Can you rephrase your question, please?
 - Sure. That wasn't a very good question.

3 Does that make you less able to observe 4 and document your findings, the fact that you do not know 5 the manufacturer of the mesh?

- A. No. Because in typical situation, we do not pay attention what kind of mesh, which brand it is. We only evaluate what's the pathological findings maybe 9 useful for clinical management. That's the thing we are
 - Q. In your experience, are -- I believe you -well, I'll start all over.

13 In your experience, do the characteristics 14 of polypropylene mesh, are they similar among various products?

- A. I think TVT sling from Ethicon has reasonably unique features under microscope.
- 18 Q. And by TVT, do you mean TVT or TVT-O?
- 19 A. Doesn't matter which one. It's all

polypropylene mesh fibers. These are monofilament 21 fibers. And under microscope, typically one is white and

- 22 the other is blue. So, therefore, when we see that, it's
- 23 quite unique for TVT. 24 Q. So by the unique features, you meant the blue
- 25 coloration, right?

Page 58 Page 60 1 A. Blue color or the pattern. Usually the 1 MS. THOMPSON: Okay. I think we can go 2 patterns, the microscopic pattern, they are sort of -ahead and change the tape. 3 it's very difficult to describe what kind of pattern. 3 THE VIDEOGRAPHER: Off the record 11:26. This concludes tape number one. 4 But when we see a lot, we know this is most likely coming 4 5 5 from that. (Recess taken.) 6 6 THE VIDEOGRAPHER: On the record 11:43. Q. As best you can, describe the pattern that 7 you're referring to. The blue coloration I understand, This begins tape number two. 8 but what's the pattern microscopically that --(By Ms. Thompson) 9 A. They have individual either parallel two mesh 9 Q. Dr. Zheng, would you agree with me that an 10 fibers or sometimes mesh knots forming, you know, knitted 10 accurate report is necessary when you're looking at a 11 area. You have clusters of the mesh fiber. And then in 11 pathology specimen? 12 12 between these mesh fibers, you see integrated tissue. MR. SNELL: Form. Vague. 13 Those are the typical patterns. A. I'm not sure I understand your question. 13 14 Q. And are you suggesting that you don't see 14 (By Ms. Thompson) 15 15 those same patterns with, say, a SPARC or a Monarc mesh? Q. Okay. It probably wasn't very good. 16 A. Frankly speaking, under microscope, I barely 16 It's important for you as a pathologist to 17 17 see different patterns or notice the particular related be as accurate and thorough as possible, correct? 18 18 to different brand. That's the situation. A. Correct. 19 Q. Let me make sure I understand. So you're 19 Q. And is the reason for that because what you 20 saying you don't see different patterns between the 20 find and document can actually impact a patient's care 21 different brands except for the blue coloration? 21 and treatment, correct? 22 MR. SNELL: Form. 22 A. I think we should make, you know, the basic 23 23 Go ahead. statement is the pathologist report all the points should 24 A. I mean, under microscope, I don't see many be relevant to patient care. All right? Then if the like dramatically different patterns as I just described. details are more helpful for patient care, then all these Page 59 Page 61 But if I see the mesh without the blue and white colors, 1 points should be included in the report. 2 2 then that may be related to other brand. Otherwise this And it's not as far as whatever you feel 3 is most likely coming from TVT Ethicon mesh. 3 you find very, very detailed. But those detail (By Ms. Thompson) 4 information not related to patient care, then usually 5 Q. Were you aware that AMS, that produces SPARC they are discouraged to put all those irrelevant 6 and Monarc mesh, designed their mesh to be identical to information into a report. So that's the so-called 7 TVT mesh? pathologist report requirement. 8 MR. SNELL: Foundation. 8 (By Ms. Thompson) 9 9 A. Can you repeat again, please? Q. Would you agree with me that histologic 10 (By Ms. Thompson) 10 evaluation can add insight into the pathophysiology of 11 Q. Were you aware that AMS designed their mesh to 11 mesh complications? be identical to TVT? 12 12 A. I think you have different levels. One is a 13 MR. SNELL: Same objection. 13 clinical service level; the other is for research level. 14 A. I'm not aware of this particular situation. 14 If you want to do some research project for those 15 (By Ms. Thompson) 15 relatively new things and are emerging kind of clinical 16 Q. But you can't today say that you would see 16 significance, then yes, you need to study as many para-17 17 anything differently under the microscope looking at a meters as you can. And then for clinical service, usually 18 TVT versus an AMS mesh versus a Boston Scientific mesh if 18 just brief to the point. As soon as you have clinical 19 they're monofilament polypropylene? 19 impact, then you put on. If you miss those clinical MR. SNELL: Form. 20 20 impact, then the clinician even will come back to ask 21 Go ahead. 21 you: So, hey, did you see that or that? Mainly because 22 A. I'm not able to, because, frankly speaking, I 22 those points are important for clinical decision. did not pay attention -- particular attention to try to 23 23 Q. So am I understanding you correctly that 24 tell the difference from which brand or where it is 24 unless -- let's go to mesh specifically. 25 25 coming from. A. Sure.

Page 62 Page 64 Q. Unless you find something that's going to 1 should be reported, then we have our professional kind of 2 2 impact the patient's care and treatment, there's no criteria. We put down based like residents, based on 3 reason to document it? 3 their trainings, and attendings based on their 4 A. Right. From pathology report perspective. professions or subspecialties. And we will put all these 5 Q. So that might explain why a significant number 5 relevant information for clinical purpose. 6 of meshes have gross examination only or, in fact, 6 (By Ms. Thompson) 7 7 sometimes are tossed in the trash without examination at Q. And just to make sure I have that clear, it's 8 all? Would you agree? yes, it doesn't matter, correct? 9 MR. SNELL: Form. 9 MR. SNELL: Form. Misstates. 10 10 Go ahead. MS. THOMPSON: Could you read back his 11 A. Yes. If the gross specimen does not look very 11 answer to the last question, just the first sentence. 12 12 significant, then clinically no indication for whatever (Record read by the Court Reporter.) 13 13 the purpose is is recorded in the requisition sheet. MS. THOMPSON: Okay. 14 Yes, based on routine pathology practice, many explanted 14 MR. SNELL: And there was an objection in 15 15 material can be just a gross only. That's part of the there, correct? 16 routine process, that's true. 16 THE COURT REPORTER: Yes. 17 17 (By Ms. Thompson) (By Ms. Thompson) 18 18 Q. What is polypropylene? Q. What other medical devices do you examine as 19 A. Polypropylene is the chemical substance for 19 part of your job as a GYN pathologist? 20 the mesh, right? A. I think overall is the repair of mesh-related 20 21 Q. Is it a plastic? 21 things. When I was a resident in overall general 22 22 A. It's a plastic, I suppose, yes. surgical pathology practice, then I have examined many 23 23 Q. You are not putting yourself up as a material other medical devices, such as some kind for bone broken, 24 expert; is that correct? 24 fractures, fixations, or cardiac kind of devices, stents, 25 25 A. Correct. I'm not a material expert. many things. Page 63 Page 65 Q. And you're not an engineer, correct? But within the GYN pathology field, yes, 1 1 2 I'm not engineer expert. we do -- usually do not have many, you know, implants 3 And you're not a medical device expert, 3 there, except this repair mesh or sling or for prolapse. Q. 4 correct? Q. So you would agree with me, then, that mesh is 5 MR. SNELL: Form. the only permanently implanted foreign material placed in 6 A. I'm not a medical device expert, but I usually 6 the pelvic region? 7 evaluate the tissue response to the medical device when MR. SNELL: Form. 8 they get explanted. 8 A. Yeah, for women. 9 9 (By Ms. Thompson) (By Ms. Thompson) 10 Q. But only if you feel that the tissue response 10 Q. For women, yes. Thanks for clarifying that. 11 is going to impact a patient's treatment, correct? 11 Let's go to your report, Dr. Zheng --12 12 A. Yes. Usually when we see those specimens in A. Sure. 13 13 either gross or microscopic findings are related to or Q. -- please. 14 has clinical significance, then we are going to put them 14 Why did you include a definition of 15 15 biocompatibility in your report? in the report. 16 16 A. I think biocompatibility issue is related to Q. Because, in your opinion, if it's not, then 17 17 my examinations, because these -- when you have some the tissue response doesn't matter, correct? 18 18 MR. SNELL: Form. implants or medical device, a foreign body get into the 19 19 A. What shall I say? This is kind of usually tissues. Then one of the common situation is whether the 20 yes. If we -- within our specialty, when we practice 20 medical device can stay there for certain period. That's 21 pathology, yes, we focus on the clinical service, 21 related to the biocompatibility, so one of the common basically. If just for documentation purpose, then 22 22 situations. So that's why I think it serves as a 23 that's also part of the clinical service. Yeah, we need 23 foundation for my future statement. That's the reason I 24 to document that. 24 put it in there. 25 25 But whether -- which microscopic finding MS. THOMPSON: Have we marked his report?

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	Page 66		Page 68
1	I don't believe so.	1	Q. And you would agree with me, Dr. Zheng, that
2	Let's go ahead and mark your report. I'm	2	the word eliciting much desirable undesirable and
3	marking your expert report as Exhibit 4, Dr. Zheng.	3	eliciting any undesirable local or systemic effects
4	THE WITNESS: Sure. I have that. Thank	4	differ in their meaning in the context of this sentence,
5	you.	5	right?
6	(Marked for Identification:	6	MR. SNELL: Form.
7	Deposition Exhibit No. 4) (By Ms. Thompson)	7 8	MS. THOMPSON: I can phrase it again.
8	Q. Could you read me, at the bottom of page 2,	9	(By Ms. Thompson) Q. You replaced Dr. Williams' word "any" with the
10	the definition of biocompatibility that you include in	10	word "much," correct?
11	your report?	11	MR. SNELL: Form.
12	A. Page 2.	12	A. Correct.
13	Q. The last sentence.	13	(By Ms. Thompson)
14	A. Okay. The biocompatibility of long-term	14	Q. If you would look at page the page just
15	implantable medical devices is the ability of the device	15	before that, 2950, in the same article, the authoritative
16	to perform its intended function, with the desired degree	16	article by Dr. Williams.
17	of incorporation in the host, without eliciting much	17	A. 2950?
18	undesirable local or systemic effects in the host.	18	Q. Yeah. One page earlier.
19	Q. And it appears that you took that definition	19	A. Okay.
20	from just looking back at your citation list, from an	20	Q. Would you start with the last sentence on that
21	article by Williams?	21	page, It is clear, and read that as well?
22	A. Yes.	22	A. Which one? You mean under 8?
23	Q. Titled, On the Mechanisms of Biocompatibility;	23	Q. Yes.
24	is that correct?	24	A. The whole paragraph or
25	A. Correct.	25	Q. Just the last sentence, beginning, It is
	Page 67		Page 69
1	Q. And I would assume that you considered this	1	clear.
2	Q. And I would assume that you considered this article authoritative on biocompatibility since you used	2	clear. A. It is clear from some well established
2 3	Q. And I would assume that you considered this article authoritative on biocompatibility since you used it in your report, correct?	2 3	clear. A. It is clear from some well established situations, in which there is ample clinical evidence,
2 3 4	Q. And I would assume that you considered this article authoritative on biocompatibility since you used it in your report, correct?A. I think so from that point of view.	2 3 4	clear. A. It is clear from some well established situations, in which there is ample clinical evidence, that the principal component of the material's
2 3 4 5	Q. And I would assume that you considered this article authoritative on biocompatibility since you used it in your report, correct? A. I think so from that point of view. MS. THOMPSON: I'm going to mark the	2 3 4 5	clear. A. It is clear from some well established situations, in which there is ample clinical evidence, that the principal component of the material's biocompatibility is that, whatever the desired function,
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Page 70 Page 72 immediate adjacent to the urethra structure, then it's as vaginal wall. 2 related to then urination or other functions. Okay. 2 O. And then the bladder wall consists of what? 3 3 I think what else you want to know? We A. Bladder wall has a bladder mucosa, which is 4 can keep going for a chapter like that. transitional cell type of transitional cells on the top, 5 Q. We can go a little while longer. I'll cut you then we also have submucosa connective tissue, then has off if we get to lunch break. muscular wall. 6 7 A. And then it also connects to the cervix and Q. And that muscle is smooth muscle, correct? then from cervix to the uterus. Then that's forming the A. Both of them they are smooth muscle. 9 Q. And that description of the bladder was from internal reproductive tract of the female reproductive 10 system. 10 the inside of the bladder out, correct, starting with the 11 Then outgoing, it connects to the opening 11 mucosa? 12 12 to the vulva area. Then we have labia minora as well as A. Starting from mucosa, submucosa, then muscular 13 13 labia majora, those anatomical structures. So that layers. 14 basically saying that the vagina conditions is 14 Q. And am I correct that the vaginal wall thins 15 nonsterile, because it's open to the outside world. All 15 with menopause? 16 right? 16 Yes. Because estrogen plays a big role there. 17 17 Q. So, so far we have, in our list of unique Q. And would you approximate the distance between 18 properties of the vagina, we have the reproductive and 18 the vaginal wall and the bowel, the rectum, to be 19 sexual function? 19 approximately one centimeter, also? 20 20 A. It's maybe little bit more, because -- yes, A. Uh-huh. 21 it's about similar situation. But it's just immediate, We have that it's immediately adjacent to the 21 urethra? 22 22 because it's not like everything stick so tightly. Some 23 23 area is closer; some area is a little bit more space. 24 Q. And you would agree immediately adjacent to 24 Q. So we have the immediately adjacent to other the bladder as well? organs. And I think another unique feature that you just Page 71 Page 73 A. Yes. Because the female urethra is relatively 1 mentioned was that the thickness of the wall can change short; therefore, the adjacent organ is the bladder. 2 with age and probably other conditions as well, correct? 3 Q. And you would agree with me that it's also 3 A. Correct. 4 immediately adjacent posteriorly to the rectum and anus, 4 MR. SNELL: Form. 5 correct? (By Ms. Thompson) 6 A. Correct. Q. Would you agree with me that the vagina is 7 7 Q. By immediately adjacent, can you tell me densely innervated? 8 how -- what the distance is between -- the average 8 A. Vagina, yes, has -- in average, has more nerve 9 distance between the vaginal wall and the bladder wall? 9 innervation or nerve fibers compared to like rectum or 10 MR. SNELL: Form. 10 the bladder. 11 A. In average, it's probably less than a 11 How about compared to the anterior abdominal 12 12 centimeter, because in those wall -- if you counting the wall? 13 loose connective tissue, then sometimes is over a Also should have more. Would it surprise you if that was 14 centimeter. 14 15 (By Ms. Thompson) 15 approximately 11 times more nerves in the vagina than in 16 Q. So the area -- well, am I correct that the 16 the anterior abdominal wall? 17 17 skin of the vagina is usually called the mucosa, correct? MR. SNELL: Foundation. 18 18 A. Yes. A. Frankly speaking, I'm not aware of the number, 19 19 Q. And is it correct that there's a muscular how many times they have. 20 layer under that that's usually called the submucosa? 20 (By Ms. Thompson) 21 A. No. Submucosa area is usually the loose 21 Q. But it is --22 22 connective tissue. Then underneath of these loose A. But it is more. That's the general situation. 23 connective tissue, there is a muscular wall. 23 Q. All right. And would you also agree that it's 24 Q. Okay. 24 densely vascularized? A. Yes. There's lots of vessels there. Lots of 25 25 A. Then put them all together, then we can call

Page 74 Page 76 1 vessels, yes. that. I didn't ask your experts about what you-all 2 O. And that would include more vascularized than talked about. 3 the anterior abdominal wall? 3 MS. THOMPSON: You're right. 4 A. In general, yes. 4 (By Ms. Thompson) 5 5 Q. And I won't even try to give you a number Q. Did the lawyers show you any documents as far as clinical trials performed on TVT-O prior to marketing? 6 there, so ... 6 7 Would you also agree with me that the 7 A. I'm not aware of that. But based on my 8 vagina is a dynamic organ? reading, seems there are multiple publications regarding 9 A. Correct. Because it can be like in the 9 the TVT-O situation compared to the conventional method 10 infancy conditions compared to reproductive age and 10 for repair for stress urinary incontinence treatment. 11 compared to postmenopausal woman, yes, they are dynamic, 11 Q. Are you aware of any of those publications 12 12 they can change. that came out prior to marketing the TVT-O device? 13 13 A. I'm not aware, you know, prior to those Q. And by dynamic, I think we mean the same 14 thing, that it needs to remain flexible and pliable to 14 publications. accommodate different conditions in the pelvis, correct? 15 15 Q. And you said that biocompatibility was 16 A. Correct. 16 important for a medical device placed in a certain area 17 Q. So at least in the -- when we're talking 17 of the body, and a clinical trial is important as well, 18 vagina, stiffness is not a good thing for the vagina, 18 correct? 19 correct? 19 A. But, in general, any medical device, if you 20 A. You need elasticity. 20 want to put into a patient body as a clinical service or 21 Q. And that would be -- I think that was probably 21 clinical treatment, you have to have those tests done. about three or four more unique features of the vagina 22 22 Nobody can just use -- create something and without these 23 23 that I won't go through them all again, correct? validation process, then, you know, just provide to 24 A. Sure. 24 patient. 25 MR. SNELL: Form. 25 Q. Okay. Dr. Zheng, if you would turn to your Page 75 Page 77 (By Ms. Thompson) 1 report, the next sentence after the one we read a little 2 Q. Would you agree with me that, to be while ago on the bottom of page 2. That states, A small biocompatible, a material or device needs to perform in amount of inflammation near the interface between the 3 the actual area where it is to be placed? foreign body and the tissue is related to better 5 A. Yes. 5 biocompatibility. What is your basis for this opinion? 6 Q. So, in other words, if you have a device that A. That basically is common knowledge within the 7 works in one part of the body but you're putting it in medical field. If you don't have a biocompatible 8 another part of the body, you need to make sure that it's 8 material planted into human body, then will elicit very 9 also going to be biocompatible with the new part of the 9 strong human tissue reactions. 10 body, correct? 10 If you have a minor or mild chronic 11 A. Not only biocompatible. You may also have to 11 inflammation, then usually indicating overall tissue 12 12 do a test, a so-called clinical trial, and to make sure reaction to particular medical device is acceptable. 13 they actually work in the majority of the situation to 13 Q. So you're saying that a small amount of 14 satisfy the clinical purposes. inflammation is better than a large amount of 15 Q. Do you know if there was a clinical trial done 15 inflammation, correct? 16 16 on the TVT-O device before it was marketed? A. Correct. 17 17 A. For this particular question, I'm not sure. Q. Not a small amount of inflammation is better 18 Q. So the lawyers for Ethicon never discussed 18 than no inflammation? 19 19 with you any clinical studies or trials done on TVT-O A. No inflammation, yes, it certainly is better. 20 before placing it on the market? 20 Okay. And when you're talking about the small 21 MR. SNELL: Form. 21 amount of inflammation that is related to better Actually he's not going to discuss the 22 biocompatibility, what type of inflammation are you 22

23

24

25

referring to?

A. Classically, when we examine those medical

devices for particularly for those slings, then they

MS. THOMPSON: Fair enough.

MR. SNELL: -- if your question goes to

particulars of our discussions --

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Page 78 Page 80 1 remove them usually is after a certain period of the been that the foreign body has been implanted? 2 implantation. Therefore, majority of such material 2 MR. SNELL: Form. 3 contains chronic inflammation rather than acute 3 Go ahead. 4 inflammation, except for infections or other conditions 4 A. In general. In general, that's a correct 5 happen. 5 statement. 6 6 (By Ms. Thompson) Q. And you've seen the same chronic inflammation 7 regardless of how long it's been implanted, correct? Q. Is pore size important when you're talking 8 A. Depending on the degree. Individual case or about the body's response to plastic mesh? 9 individual specimens have individual situations. More or A. Pore size is one of the important factors 10 less, they have certain degree of chronic inflammation. 10 related to the biocompatibility or tissue integration. I 11 Q. And you're not suggesting that chronic 11 think we -- I have discussed some area. Particularly we 12 inflammation that goes on indefinitely is better than not 12 discussed a lot in the Lewis case. But yes, the answer having the chronic inflammation, correct? 13 13 is yes. 14 14 MR. SNELL: Form. Q. And when you're talking about tissue 15 A. As I said, no inflammation certainly will be 15 integration, the desired tissue integration is the same 16 better than with inflammation. 16 tissue that's surrounding the mesh, correct? 17 17 (By Ms. Thompson) Getting into the pore and then surrounding the 18 Q. All right. Going to the foreign body response 18 pore. 19 paragraph, what is the difference between a response to 19 Q. Into the pore and surrounding the pore? 20 20 A. Surrounding the mesh, yes. surgery -- the healing response to surgery with and 21 21 without a foreign --Q. And in the area that the TVT-O is implanted, 22 22 that surrounding tissue is loose connective tissue as A. Foreign body? 23 23 O. -- body? Please. you've described, correct? 24 A. In general, surgical procedure will cause 24 A. Majority of them they are connective tissue, tissue damage. That's for sure, because the knife cuts 25 that's right. Page 79 Page 81 the skin, for instance, make a cut, then separate the Q. Loose connective tissue? 1 2 tissue already. Then with or without foreign body makes A. Right. Or some of them can have little bit 3 a difference, because if without foreign body or medical 3 more dense. 4 device implant, then the tissue just react to the injury. Q. No. We're talking about what the normal 5 Then with foreign body device or medical tissue is in the vagina --6 device get into the tissue, then not only the body or the 6 A. Right. 7 tissue will react to the tissue damage and also will Q. -- is loose connective tissue, correct? 8 react to the foreign material implanted in that area. So 8 A. Right. Or we should say just connective 9 that's the main difference. tissue, because it's very difficult to define what is 10 Q. So with surgery without using a foreign body, 10 so-called loose, what is so-called dense. So overall 11 the inflammatory response is self-limited, correct? 11 it's connective tissue will be a better concept to cover. 12 MR. SNELL: Form. 12 Q. I think you said loose before. So what is 13 (By Ms. Thompson) 13 your definition of loose connective tissue? 14 Q. In the normal healing process? 14 A. Loose connective tissue basically you have 15 A. Correct. 15 less cellular density or less amount of fibroblasts 16 Q. And with a foreign body, and with mesh 16 compared to dense connective tissue. specifically, the inflammatory process continues 17 17 And what does dense connective tissue consist Q. 18 18 indefinitely, correct? of? 19 19 A. Basically indefinitely, but to a certain A. Dense connective tissue, that means all of degree, tissue will adapt that kind of environment, then 20 20 them under microscope you see the fibroblasts and 21 weaned tissue response reaction rate. That means in 21 collagen bundles. 22 Q. And would dense connective tissue be used 22 certain situations or in majority of the situations, the 23 tissue response wean out. That means getting reduced. 23 synonymously with fibrous connective tissue? 24 Q. But you would agree that there is a continued 24 MR. SNELL: Form. 25 chronic inflammatory response regardless of how long it's A. No. Fibrous -- fibrous connective tissue is

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	Page 82		Page 84
1	also a general concept or terminology to describe all	1	A. Somewhere maybe. Lightweight versus
2	kinds of fibrotic component as well as fibroblasts and	2	heavyweight.
3	then vessels. Even occasionally you have some nerve	3	Q. And so your opinion is that lightweight
4	fibers there and some inflammatory cells.	4	is better than heavyweight, correct?
5	(By Ms. Thompson)	5	MR. SNELL: Form.
6	Q. Do you see loose connective tissue in the	6	A. As I said, I'm not the material expert. But
7	pores of transvaginally-placed explanted mesh?	7	overall I think, based on my evaluation, pathological
8	A. From those majority of situations, we see	8	evaluation from those meshes, I'm not able to tell this
9	more, in general, connective tissue, rather than try to	9	mesh is lightweight versus heavyweight.
10	divide them into either loose or dense.	10	But based on literature, it seems
11	Q. But even though the normal connective tissue	11	lightweight should be better.
12	is loose connective tissue, you don't generally see that	12	(By Ms. Thompson)
13	in the pores of the mesh, correct?	13	Q. And you would agree that Prolene in the
14	MR. SNELL: Form.	14	literature is usually listed as a heavyweight mesh?
15	A. In general, within the incorporated tissue	15	MR. SNELL: Form.
16	into the mesh pores, we see less loose connective tissue.	16	A. Can you lead me which section I was I have
17	(By Ms. Thompson)	17	written regarding this paragraph?
18	Q. And when we look at slides a little bit later	18	(By Ms. Thompson)
19	on, I'm going to have you show me where you see the loose	19	Q. That's what I was looking for myself, so it
20	connective tissue.	20	escaped both of us, but I'll find it.
21	A. Sure.	21	MR. SNELL: I'm going to object. This is
22	Q. And the pore is the same thing as a hole,	22	outside the scope of his opinion.
23	right?	23	MS. THOMPSON: It's in his report.
24	A. Correct.	24	MR. SNELL: I don't think he opines on
25	Q. And have you ever actually measured the pore	25	which is better as opposed to just the basic
	Page 83		Page 85
1	Page 83 size of TVT mesh?	1	Page 85 MS. THOMPSON: Well, let's definitely find
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Page 86 Page 88 the mesh material is what you have determined from the (By Ms. Thompson) 2 literature, correct? 2 Q. So you are not really familiar with the hernia 3 A. Correct. 3 repair literature regarding polypropylene mesh and the 4 Q. And I think after that I asked you the complications associated with hernia repair mesh? 5 question, did you know that Prolene is usually considered 5 A. Correct. 6 a heavyweight mesh in the literature? And is that your 6 Q. What do you mean by the last basic factor 7 understanding of the literature? related to the overall biocompatibility of the mesh 8 MR. SNELL: Form. 8 material, filamental structure? 9 Go ahead. 9 A. Filamental structure basically how these, you 10 A. I'm not sure. This is -- that's why I say 10 know, filament knit together basically. My understanding 11 later on I did not pay attention to how to define heavy 11 is that. All right. If the filament, for instance, 12 versus light, because from my practice point of view, 12 forming sheets without -- with very small pore size, then certainly will not allow good tissue integration. That's 13 13 it's not related to my opinion in terms of tissue 14 response to the mesh specimen. 14 overall filament structure. 15 15 (Marked for Identification: However, if you have certain pore size, 16 Deposition Exhibit No. 6) 16 then knit in certain way, that may help tissue 17 17 integration. That's my understanding for the filament (By Ms. Thompson) 18 18 Q. All right. Well, I didn't bring a lot of structure. 19 literature on that point, but I did bring an article that 19 Q. And that's from the literature as well, not 20 you are using for another purpose that I will mark as 20 personal opinion -- not personal experience? Exhibit 6, and this is the article by Cobb. 21 A. No. I don't have that particular interest, 21 22 22 And if you would just turn to the second too. 23 23 page where it states the concept of lightweight mesh. O. Biocompatibility refers to the material 24 A. Yes. itself; in the case of a TVT-O, the polypropylene plastic 25 And this article states that several material, correct? Page 87 Page 89 comparable formulations of heavyweight polypropylene are A. Yeah. Overall reflects the material -- the 1 available with a similar polypropylene content as Marlex relationship between the material and the tissue 2 including Prolene. Is that what this article says? 3 3 response. A. This article says it that way. 4 4 Q. And the tissue that it's in, right? 5 Q. Okay. And the next basic factor related to 5 You would agree with me, though, that the 6 the overall biocompatibility of a mesh material is TVT-O kit sold by Ethicon is more than just the material, 7 elasticity. Could you explain that to me? wouldn't vou? 8 8 MR. SNELL: Form. A. Elasticity basically, based on my 9 9 understanding, is you -- it's not like -- for instance, A. I don't understand the question. 10 this iron or steel material, then the elasticity will be 10 (By Ms. Thompson) 11 a lot less than plastic. Then you need a certain degree 11 Q. Well, I think what I mean -- it probably to tolerate the stretch. Therefore, that represent 12 12 wasn't a very good question -- the kit contains surgical 13 elasticity. 13 instruments --14 Q. And that's important because of what we 14 A. Yes. 15 already discussed --15 Q. -- needles, et cetera. And the method in 16 A. Right. 16 which it's placed is dictated by the combination of the 17 17 Q. -- of the vagina? material as well as the instruments to insert? A. Sure. 18 18 A. Because -- yeah. The particular organ site, 19 19 to serve the function you need elasticity. Q. Does that help you understand the question? 20 Q. And are you aware of studies showing stiffness 20 Sure. Yes. 21 of polypropylene mesh associated with abdominal wall 21 So the question then is, the kit is more than just the plastic material of the tape, correct? repairs? 22 22 MR. SNELL: Form. 23 23 A. Yes. The kit contains all kinds of condition 24 24 A. I'm not aware of that, because I rarely read or material to help this procedure. 25 the literature for the, you know, hernia repair. Q. In your opinion, is polypropylene biologically

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	Page 90		Page 92
1	inert?	1	Vague as to who. He's not testifying important as to a
2	A. Yes.	2	surgeon. He can only testify what is important to him as
3	Q. In your opinion, is polypropylene chemically	3	a pathologist. That's the basis of my objection.
4	inert?	4	(By Ms. Thompson)
5	A. I'm not sure, because I'm not I did not	5	Q. Take out the word important. What are the
6	study this, and also I'm not expert for the material.	6	structures in the obturator foramen?
7	Q. Okay. So biologically inert, yes. What does	7	A. I think within that structure, you have
8	that mean to you?	8	vessels, you have muscles
9	A. That means it has overall has a good	9	Q. What vessels?
10	biocompatibility. It can stay within the tissue for	10	A. What kind of special vessels? You know, I'm
11	longer time, for long time.	11	not sure there is a special name within those, because if
12	Q. And	12	you need to anatomically specially identify vessel,
13	A. And then the tissue response is within the	13	usually it's quite big. And small ones just to supply
14	acceptable range and still maintains the overall	14	the nutrition to those adjacent tissues.
15	biological function.	15	Q. So we'll go with obturator vessels. How's
16	Q. And does that mean that it does not degrade	16	that?
17	over time?	17	A. That's fine.
18	A. My overall understanding is the mesh is	18	Q. Okay. So what else?
19	considered as a nondegradable material.	19	A. Then you have muscles, obturator internus,
20	Q. Can you explain or explain to me how a	20	obturator externus. And then you may also have some
21	TVT-O mesh is put into the body.	21	peripheral nerve branches or nerve twigs, small nerve
22	A. First of all, I'm not a surgeon, so the	22	fibers.
23	overall, the detail procedure, I do not perform.	23	Q. Well, isn't it true that you actually have the
24	Therefore, I don't have the detail to tell you.	24	obturator nerve, which is a fairly large nerve, correct?
25	But the overall situation is from the	25	A. That's a big one, too.
	But the overall situation is from the		
	Page 91		Page 93
1	Page 91 skin, then you have a tape, then through the skin	1	Page 93 Q. Okay. And then as the tape comes through the
1 2	skin, then you have a tape, then through the skin incision or either inside out or outside in procedures,	1 2	Q. Okay. And then as the tape comes through the foramen and before it gets to the skin, what structures
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Page 94 Page 96 1 is bladder perforation, so for TVT-O is more common for A. Correct. 2 bladder perforation. Q. Do you believe that some patients are 3 Q. TVT-O is more common to have bladder 3 predisposed to exaggerated immune and inflammatory 4 perforations? responses? 5 5 A. Based on my impression, yes. A. Some patients, yes. 6 Q. But you wouldn't receive, typically, a 6 How do you identify those patients? 7 specimen for a bladder perforation, would you? A. From clinical perspective, typically doctors, 8 A. No. Bladder perforation is only clinical before doing any of these implantation, will ask any 9 record. Usually they don't remove any specimen or any history of like hypersensitive history to certain things 10 part of the bladder for that. 10 or any history of foreign body implantations. Then to 11 Q. And what other complications are more common 11 see -- to evaluate the overall response or potential 12 with a retropubic sling than a transobturator sling? 12 response or any hazard or risk for the implantation 13 13 A. Compare -- they are both procedures. My procedure. 14 overall impression is they are comparable. It's not like 14 Q. Anything else? 15 15 specifically one way versus the other is more or less. A. I think that's -- from my understanding, 16 Q. And you're saying comparable in what way? 16 that's the main thing. 17 17 A. I mean like overall cure rate and the overall Q. So doctors should know that or should be 18 complication rates. Maybe have some, you know, 18 informed that there are certain patients that may have a 19 variations for that, but it's not like dramatically 19 hypersensitivity or an exaggerated immune inflammatory 20 different. 20 response to polypropylene? 21 21 So you're saying that the complication rates MR. SNELL: Form. O. 22 are the same. But are the complications themselves the 22 This is outside the scope of his report. 23 23 He's not offering an opinion on warnings or what should 24 MR. SNELL: Form. I think that misstates 24 be told to doctors. He's not testifying in the place of a 25 what he said. surgeon. So this isn't within his report or his opinions. Page 95 Page 97 A. I think I'm not in particular to answer those MS. THOMPSON: I wasn't asking him as a 1 1 2 questions, mainly because they are all clinical surgeon. He has in his report the factors that can cause 3 questions. 3 a patient to have an exaggerated or hypersensitive response. So I'm just trying to tease that out, how a 4 (By Ms. Thompson) 5 Q. But isn't it important for you to have the 5 doctor determines that. 6 clinical information when you're determining what might 6 MR. SNELL: I don't see in his report 7 be the cause for the clinical symptom? where he has the factors for a hypersensitive response, 8 nor is he speaking on that or designated on that. A. No. For pathologist, we don't need those, 9 MS. THOMPSON: Well, he just spoke on it, 9 which one has more complications related to certain 10 particular situation. We will provide tissue response 10 so -- all right. 11 or the particular findings to the clinicians to help 11 (By Ms. Thompson) 12 12 them to future management. Q. And you also noted several factors for the 13 Q. So you're saying it's not important to you as 13 same exaggerated immune and inflammatory response. And 14 a pathologist to know the different types of we're reading -- I'm actually reading in your report on 15 complications that are associated with different types of 15 page 3. 16 meshes? 16 A. Yes. 17 17 That include the host genetics and the host A. Correct. 18 18 other physical conditions, smoking, diabetes, et cetera? Q. Do you agree that women react differently to a 19 19 foreign body such as mesh? A. Yes, I agree. 20 MR. SNELL: Object to form. 20 Q. It's your opinion that those will impact the 21 A. I agree individual person has individual 21 host response? 22 22 response. A. Correct. For instance, diabetic patient may have higher risk for infection. Therefore, if this kind 23 (By Ms. Thompson) 23 24 Q. And this would include the scope and severity 2.4 of patient receive some implants, compared to those of the body's reaction to the plastic material, correct? patients without diabetes, may pose a higher risk for

Page 98 Page 100 1 future infection. (By Ms. Thompson) 2 Q. And so it's very hard to predict who is going Q. That the healing process goes to a certain 3 to have some of these complications and who will not, point, and then there's no further inflammatory process, 3 correct? 4 5 A. Correct. 5 A. So-called healed. After healed, then no Q. Describe for me the cascade of the body's 6 further reaction. 6 7 foreign body response. Q. So the function of this, these macrophages, 8 A. Okay. Foreign body response starting from the the body's response, is to eliminate the hostile 9 tissue received the foreign material, then at the material, correct? 10 10 beginning is acute phase, and tissue mainly respond to A. Yes. 11 the injury. And then after the acute phase, then --11 Q. And when the elimination is not possible, the 12 usually the acute phase takes about 48 hours. After 48 12 body then tries to isolate the hostile material, correct? hours, then gradually moving to chronic phase. 13 13 A. That takes long time, yeah. Overall 14 Chronic phase, we have different 14 situation, yes, try to isolate that. That's a 15 inflammatory cellular component compared to acute phase, 15 reasonable, yes, approach. 16 so which typically including lymphocytes, monocytes, 16 Q. And that's a general description, but that 17 17 macrophages, and so on. Okay? applies to mesh as well, would you agree? 18 18 Then the chronic, these macrophages A. Yes. Because mesh is a type of foreign body. 19 particularly will play a role to try to get rid of the 19 Q. What is granulation tissue? 20 foreign material, because the foreign material does not 20 A. Granulation tissue is defined by presence of belong to the body. So they recognize this is kind of 21 21 connective tissues as well as vessels and also hostile material, I don't want them to be there. So they 22 22 inflammatory cells. That's so-called granulation tissue. 23 23 will generate a response. O. Is fibrosis the same as scar? 24 Then since the medical device typically is 24 A. No. Scar is defined by -- typical scar larger particles compared to those individual cells, so defined by pure form of collagen bundles without or with 25 Page 99 Page 101 they fuse together to form foreign body giant cells. minimal amount of inactive-looking or dying fibroblasts, 1 Then these foreign body giant cells serve as a 2 2 fibrocells. Okay? That's the definition for scar, a pure scar. 3 synergistic effect to try to get rid of them. That's why 3 typically they are surrounding those foreign material, Then fibrosis we have certain degrees, for instance, mesh. We see those foreign body giant typically. We divide them into mild, moderate to severe, depending on the microscopic findings. We have different 6 cells all the time under microscope. 7 7 O. With mesh -degrees. 8 A. With mesh. 8 Q. You are not saying, are you, that scar 9 9 Q. -- is that correct? doesn't -- can't contain blood vessels and nerves, are 10 And you said in your report if the process 10 you? 11 continues -- you're talking about the continuation of the 11 A. Scar, classic scar, so-called pure scar, does 12 12 inflammatory process beyond acute inflammation, correct? not have vessels. 13 13 MR. SNELL: What page are you on? Q. But it does have nerves or can have nerves, 14 MS. THOMPSON: Page 3. I'm sorry. 14 correct? 15 15 (By Ms. Thompson) A. Does not have nerve to scar, but adjacent to 16 Q. If the process continues, in the next to last 16 the scar tissue you can have those vessels and nerves. 17 paragraph. And with mesh, that process is going to 17 So histologically that means, under microscope, if it is 18 automatically continue, would you agree? scar, we don't see those. It's basically all pure 18 19 19 A. Yes. collagen bundles. 20 Q. And with nonmesh surgery -- and I think you 20 Q. So you are telling me today that scar does --21 said this before, so I want to make sure I get it 21 cannot contain nerves or else you don't call it scar, 22 22 correct -correct? 23 A. Just --23 A. If you have a nerve, then -- entrapped there 24 MR. SNELL: Let her ask her question. 2.4 or something within the scar, that's abnormal finding. 25 In normal scar formation, you should not see this.

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	Page 102		Page 104
1	Q. So if you do see nerves in scar, it's	1	the scar area. Okay? But these findings does not
2	abnormal?	2	disqualify this is a scar, number one.
3	A. If you consider that's a true scar, then you	3	Number two, finding such kind of structure
4	see those, that's abnormal, correct. Or usually that's	4	does not necessarily say these nerves still or nerve
5	isolated. They are not viable.	5	fibers still maintain the function, because we don't know
6	Q. But it doesn't make it not a scar just because	6	what's the connection to the main nerve.
7	you see nerves, correct?	7	(By Ms. Thompson)
8	A. Can you repeat that?	8	Q. Scars can be painful, correct?
9	Q. Just because you see nerves within scar, you	9	A. Yes, scars can be painful. That overall
10	said it was abnormal, but it doesn't disqualify it from	10	statement is correct.
11	being called a scar, correct?	11	Q. So pain is carried by nerves, pain sensation,
12	A. No. I think my definition of scar or my	12	correct?
13	understanding of a scar overall from the literature, the	13	A. It's not necessary. Painful feeling, you
14	scar is composed by pure collagen bundles without vessel,	14	don't have nerve, also you can feel pain, because pain is
15	number one. That's why the scar looks whitish.	15	a feeling. It's a personal feeling. Personal feeling
16	Although you have different kind of scars,	16	can be psychologic.
17	like keloid and other things. That's a different special	17	Q. Okay. So you're saying that if a patient has
18	scar. We are not talking too many special situations	18	a scar that is painful, is it more likely than not
19	there.	19	psychologic?
20	And then they do not have nerve within the	20	MR. SNELL: Object to the form. This is
21	scar. That's in the normal situation, because nerve	21	beyond vague and hypothetical.
22	cannot grow. Even at the beginning in the process of	22	A. We are discussing those very general terms.
23	scar formation, you may have some nerve or vessels. Then	23	All right. And very general terms can be very loose.
24	after they mature, these vessels, they vanished. They	24	Therefore, it's not going to be very helpful to help us
25	are not functioning anymore.	25	to discuss this particular case. I don't
	Page 103	1	Page 105
	_		rage 103
1	So, therefore, when you say are you able	1	(By Ms. Thompson)
1 2	So, therefore, when you say are you able to see reminiscent kind of vascular structure? Yes,	1 2	(By Ms. Thompson) Q. Well, let's just get specific, then, for an
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	WEIIXIII ZII		- :
	Page 106		Page 108
1	(By Ms. Thompson)	1	A. Correct.
2	Q. We are I'm on page 6 of your report.	2	Q. What is your basis for saying that mesh
3	A. Okay.	3	erosion with TVT and TVT-O is rare?
4	Q. It begins with opinions on tissue response to	4	Well, is your basis the article that's
5	TVT-O.	5	cited in your paper?
6	A. All right.	6	A. Correct. One is the paper cited. The other
7	Q. I believe either you or Mr. Snell stated this	7	is noncited publications. They also mentioned overall
8	morning that you will not be giving opinions as to	8	infection rate or erosion rate is low.
9	whether the TVT-O is the standard of care; is that	9	Q. Okay. Well, you actually say the erosion rate is rare?
10	correct?	10	
11	A. How this happens regarding or what's the criteria to make TVT or TVT-O as the standard of care I	11	A. Right.
12		12	Q. What's your definition of rare?
14	think I'm not going to I'm not expert for the clinical	14	A. Rare cases are occasional cases, basically. That's so-called rare. And what's the percentage?
15	aspects. However, this is the fact based on my	15	Maybe, you know, two or less than two or five, less than
16	understanding. Ethicon's TVT and TVT-O are still being	16	five, those cases.
17	considered as the standard of care for stress urinary	17	Q. Five percent?
18	incontinence.	18	A. Percent, right.
19	Q. But you will not be offering any opinions to	19	Q. So less than five percent would be rare, in
20	that effect at trial, correct?	20	your estimation?
21	A. Correct.	21	A. Or can be, yes. Can be basically there's a
22	Q. And you state in this section that you've seen	22	loose definition for those conditions. Not like
23	many meshes removed from asymptomatic patients. We	23	people everybody understands five or less is rare or
24	talked about that this morning, correct?	24	two or less is rare. Right? So this is these
25	A. Correct.	25	numerical numbers I think does not give you definitive
		_	
	Page 107		Page 109
1	Q. And the next line, meshes taken out of	1	kind of definitions for the answers you are looking for,
2	Q. And the next line, meshes taken out of patients with erosion. What do those meshes typically	2	kind of definitions for the answers you are looking for, I think.
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Page 110 Page 112 1 A. Yes. 1 MR. SNELL: Form. Outside the scope of 2 Q. -- you agree that nerve fibers do integrate his opinion. 3 into the mesh pores, correct? 3 (By Ms. Thompson) 4 Q. You can answer. 4 A. Yes. 5 5 A. Okay. I think all these clinical Q. And when you say without mature scar formation, what do you mean by that? complications mainly in the clinical side. Okay. From 6 7 A. Mature scar, as I think we discussed earlier, pathology or pathologist perspective, I'm not really in 8 it's composed by pure collagen bundles without vessels, a position to address individual complications. 9 typically, or without viable vessels or circulating 9 But my overall impression for the mesh 10 vessels, vessels with circulation. Okay? And that's the 10 implantation procedures, like a TVT or TVT-O, the overall 11 condition, by definition. And you can see very rare 11 complication rate is low or is within acceptable range in 12 12 maybe. Typically no viable cells. You can see very rare medical practice. 13 13 cells there. Q. So the opinion that -- or the sentence that my 14 Q. So the scar that you see in the mesh pores is 14 opinion is supported by the numerous clinical trials 15 immature scar? 15 showing good performance and low complication rates with 16 A. It's usually there is -- people usually don't 16 TVT-O, you will not testify to the good performance and 17 use sort of immature scar. Scar formation is a process. 17 low complication rates; is that correct? 18 18 All right? Yes. Beginning from immature and then become MR. SNELL: Form. 19 A. Yeah. I'm not going to testify on the 19 mature, fully mature. Okay. That's a process. Process within this process, you have 20 20 clinical side. fibrosis. And degree of fibrosis, as we discussed, you 21 (By Ms. Thompson) 21 have mild degree -- or no degree, mild degree, moderate 22 Q. Okay. You state that multiple animal studies 22 23 demonstrate TVT-O's sufficient pore size. Do you believe 23 degree and severe or extensiveness of the fibrosis, 24 different degrees. Then to the extreme then become 24 that to be the case? 25 25 A. Yeah. Because from animal study also you see mature scar. Page 111 Page 113 And then why we want to do that? Mainly these good tissue integration into the mesh pores. 1 2 2 because that's related to the function. If you have a Therefore, that represent good tissue integration. 3 mature scar, then typically the tissue lost elasticity 3 Q. And wouldn't you agree with me that in order 4 function. Therefore, these area may, you know, inference 4 to extrapolate the results of the animal studies, it 5 the function, overall organ or tissue function for that would need to be implanted in the same tissue as it is 6 particular area. going to be in in the woman and that it would have to be 7 But while, in contrast, if you have very left in for a long term to be able to make that 8 mild or just mild, even some degree of moderate fibrosis 8 assessment? 9 9 that's within the process of scar formation, then an end A. Sure. Many studies like animal studies the 10 result there's no inference for function. So that's the 10 animal level, but it does not necessarily say the 11 difference. 11 successfulness in the animal study will be also 12 12 That's why when we say scar, many people successful in the human, you know, implantation. That's 13 use the scar concept is too general. As soon as they see 13 different thing. 14 little bit fibrosis, they say, oh, this is scar. That's 14 Q. Okay. So the fact that, of the three animal 15 15 not true. Because in our general understanding, when you studies that you listed, one was 10 weeks, one was 91 16 16 days, and one was 13 weeks, that's sufficient to show say scar, the basically inference or indicating the 17 17 functional change. While you say fibro-connective tissue that there's appropriate tissue ingrowth? 18 18 or the soft tissue with fibrosis, that means, yes, we see A. Yes. 19 19 fibrotic process. However, the function maintains. Q. On page 8, isn't it true that cultures are the 20 That's underlining, you know, inference. 20 method that you typically diagnose infection with, not 21 Q. Does immature scar eventually develop into 21 histology? 22 22 mature scar? MR. SNELL: Form. 23 A. You mean how to make the diagnosis for 23 A. To certain degree they may develop. It's not 24 always develop into mature scar. 24 infection? 25 25 Q. Are mesh complications underreported?

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	Page 114		Page 116
1	(By Ms. Thompson)	1	infection or subclinical infection.
2	Q. Yes.	2	Q. And you're also familiar with the term of
3	A. Infection diagnosis is two things. In the	3	bacterial contamination?
4	tissue level, you see very extensive inflammation,	4	A. Yes.
5	including abscess formation, number one.	5	Q. Or colonization?
6	Number two is either in the culture or	6	A. Yes.
7	special stainings for some microorganisms, then you can	7	Q. And you could not say that Ms. Edwards did not
8	do that.	8	have one of those conditions; you're talking about she
9	Q. Did you do any special staining for	9	did not have an acute infection or an abscess, correct?
10	microorganisms in Mrs. Edwards?	10	MR. SNELL: Form.
11	A. No. Because there is no reason to do that.	11	A. Correct.
12	Q. What is your basis for saying that	12	(By Ms. Thompson)
13	Ms. Edwards did not have an infection in her explanted	13	Q. And you did not perform any cultures on
14	mesh?	14	Ms. Edwards' mesh, did you?
15	A. Because I did not see extensive inflammation.	15	A. No. Because what I have received is the block
16	Only the degree of inflammation is mild. And many other	16	within the paraffin and also the slides already cutted.
17	areas a couple of millimeter away from the mesh material	17	So from those conditions are not suitable for culture.
18	even without any evidence of inflammation.	18	Q. Moving on to page 9, you state that it would
19	Therefore, from those tissue sections,	19	be abnormal if no nerve fibers were found in the vaginal
20	even you do culture or do stainings, it's unlikely you	20	wall. I think we covered that, right, this morning?
21	demonstrate these microorganism which may be meaningful	21	A. Correct.
22	for indicating infection. Plus, clinically there is no	22	Q. Because the vaginal wall actually has dense
23	evidence of infection anywhere.	23	nerve fibers, correct?
24	Q. But when there's exposure, there's probably	24	A. Yes.
25	infection, correct?	25	Q. In the second paragraph it states that vaginal
_			
	Page 115		Page 117
1	Page 115 MR. SNELL: Form. Misstates.	1	Page 117 pain is a clinical symptom. Would you read the last
1 2	_	1 2	9
	MR. SNELL: Form. Misstates.		pain is a clinical symptom. Would you read the last
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2 3	MR. SNELL: Form. Misstates. A. If the patient has erosion or mesh exposure, there is a possibility of infection. However, it's not	2 3	pain is a clinical symptom. Would you read the last sentence in that paragraph and explain that to me, please?
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	Page 118		Page 120
1	abnormality, that you can't correlate the clinical	1	Q. And would the same be true if you're looking
2	symptom of vaginal pain and dyspareunia to the mesh?	2	for a perineural invasion with a malignant tumor?
3	A. Because from pathological perspective, if I	3	A. Yes. Perineural invasion with cancers are
4	see some nerve abnormalities, then that may support the	4	then we usually do not stain with nerve-like markers. We
5	clinical finding or clinical complaint of pain from that	5	just identify cancer cells, because typical nerve fibers,
6	area. However, if I don't have such evidence, then I	6	they are easily identifiable under microscope.
7	can't correlate this kind of complaint.	7	Q. So with H&E stain?
8	But I didn't say her or anyone complains	8	A. With H&E.
9	of pain is not true, because pain is a feeling. It's a	9	Q. So the competent, experienced pathologist can
10	personal experience. These are totally different	10	see nerves? You don't have to rely on any special
11	concepts.	11	staining to see nerves; is that correct?
12	Q. Isn't it true that abnormal nerves typically	12	A. Correct.
13	cause numbness or paralysis or other symptoms, not pain?	13	Q. Does chronic inflammation cause cancer?
14	MR. SNELL: Form.	14	A. That's another very general question. All
15	A. No. For instance, abnormal nerve, including	15	right. Many cancers can be associated with chronic
16	neuroma, is a tumor-like lesion, clusters of	16	inflammation. But whether chronic inflammation directly
17	abnormal-looking nerve fibers coming together. Then this	17	cause cancer probably is not a good statement.
18	is well documented phenomenon can generate pain.	18	Q. So it's an association more than cause and
19	For instance, someone if my finger get	19	effect, in your opinion?
20	a cut, then that after cutting the portion of the	20	A. Yes. Overall in the field that's
21	finger, the end of the proximal end of the nerve may	21	Q. Why can rat studies on sarcoma formation not
22	form a neuroma-like lesion. Then that area will generate	22	be extrapolated to the human experience?
23	pain. That's histological convincing evidence.	23	A. As I said, animal studies represent in animal
24	(By Ms. Thompson)	24	levels, and then if you have to find evidence in the
25	Q. Has anyone, either treating physicians or	25	human to see if this kind of condition can be repeatable.
	Page 119		Page 121
1	Page 119 experts that you're aware of, given the opinion that	1	Page 121 And for mesh implant into woman, so far
1 2	experts that you're aware of, given the opinion that	1 2	And for mesh implant into woman, so far,
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	Page 122		Page 124
1	with mesh in the abdominal wall?	1	(By Ms. Thompson)
2	A. I'm not aware of that.	2	Q. I will mark as Exhibit 8 photographs of the
3	Q. Are you aware of studies showing benign	3	block that I believe the blocks that I believe you
4	inflammatory tumors associated with vaginal mesh?	4	received.
5	MR. SNELL: Form. Go ahead. Foundation	5	A. Yes.
6	on that question.	6	Q. To your best knowledge or recollection, would
7	A. There is no such entity called benign	7	these be Tonya Edwards' blocks?
8	inflammatory tumor, because there is no such a thing	8	A. Yes.
9	there. You can have a benign tumor, and then	9	Q. And the mesh in these blocks appear
10	inflammation may be related to that. Then or	10	(Marked for Identification:
11	tumor-like conditions may be associated with	11	Deposition Exhibit No. 9)
12	inflammation.	12	(By Ms. Thompson)
13	(By Ms. Thompson)	13	Q. I will also mark as Exhibit 9 the gross
14	Q. What is an inflammatory myofibroblastic tumor	14	pictures of the mesh received from Tonya Edwards,
15	of the urinary tract?	15	photographed by the plaintiffs' expert, Dr. Iakovlev.
16	A. That's kind of one of the rare tumors, you	16	A. Okay.
17	know, associated with inflammation.	17	Q. And would you agree with me that the mesh that
18	Q. Sounds like an inflammatory tumor. Am I	18	you received in block is not fragmented?
19	right?	19	A. Is not fragmented?
20	MR. SNELL: Form.	20	Q. Correct.
21	A. Well, that's why but what I mean for your	21	A. When they embed, yes, they embed those gross
22	previous statement is there is no nobody calls benign	22	tissues with mesh, probably do not represent too many
23	inflammatory tumors in the GYN system.	23	sections. Just they put, you know, these fragments of
24	(By Ms. Thompson)	24	tissue with mesh, then embed it into block, two blocks
25	Q. So I should have left out the benign and just	25	labeled with A and B, I think, either one of them.
	Dogg 122	_	D 105
	Page 123		Page 125
1	said inflammatory tumor, correct?	1	Page 125 Q. But you would agree with me that the mesh in
1 2	-	1 2	_
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Page 126 Page 128 1 in between? depending on one level to the other level usually if it's 2 A. Then not -- depending on not -- like little continuous, then these levels almost identical or with 3 3 bit of space, because typically technicians has a habit very minimal changes. But, in reality, when I examined 4 to trim the tissue, because the block is very flat on a parallel levels from -- because each block he generated several levels, right? You understand, right? 5 surface. So at the beginning when the block was made, 6 it's not flat and smooth, so has uneven surface. So the 6 O. Correct. 7 technician has to make this even and smooth surface; they A. Even in the S100 staining sections, they are 8 have to trim the tissue block. parallel levels. Within these two parallel levels from, 9 From that point of view, then some of the for instance, block A, then they look dramatically 10 tissue will have to be wasted. Otherwise never to cut a 10 different. Therefore, something is missing in between. 11 single plane or single section contains every piece of 11 That means in most of the conditions the technician have 12 tissue. You understand, right? Because when you embed, 12 a habit generally do one slide, then cut more, throw it 13 13 they are not in the same plane. away, and take another section. 14 14 Q. So if Dr. Iakovlev's lab did eight sections Q. So you had all the slides that Dr. Iakovlev made, correct? 15 15 from one block, nine sections from the other block, did 16 not waste any more than what is required to do the 16 A. Correct. 17 sections, that would be approximately 1,500 sections in 17 MR. SNELL: Hold on, hold on. I'm going 18 each block, correct? 18 to object on foundation. He doesn't know that. We don't 19 MR. SNELL: Form. 19 know what Dr. Iakovlev has. We only have what he has 20 A. That's why I said, in theory, yes, you can --20 produced. And the doctor has already testified there's each block can generate lots of sections, that's true. 21 21 stuff missing, so... 22 But in reality, reality makes difference, because nothing 22 MS. THOMPSON: I don't believe that's the 23 23 in practical conditions. You can just based on theory, case. 24 then general things. 24 MR. SNELL: Did you not testify that 25 25 there's --So, in reality, let me explain to you. Page 127 Page 129 For instance, from this, these gross specimens, tissue MS. THOMPSON: Oh, I thought you meant 1 2 size are different, right? See that fragment is long, Dr. Iakovlev. Okay. 3 and the other is small. Then the thickness, they are 3 (By Ms. Thompson) 4 different. See the thickness? Some of them quite thick; Q. So what we do know, you had 17 slides from 5 some of them quite flat. All right? Dr. Iakovley. You had these two blocks that generally 6 And then when you embed, they are not in correspond with the gross picture that Dr. Iakovlev took. 7 the ideal everything the same level. When the technician We have potentially 3,000 sections in each, in the two 8 embedded these tissue fragments into paraffin block, they 8 blocks combined. 9 are in sort of similar even level but not identical. You 9 A. I didn't say 3,000. 10 understand, right? Do you? 10 MR. SNELL: He didn't say that. 11 (By Ms. Thompson) 11 (By Ms. Thompson) 12 12 Q. I'm finishing. I'm saying potentially. I'm Q. Yes, I do. 13 A. And then when they make these blocks, you see, 13 saying that. their surface is very flat. How that happen? They have 14 He says they're four and you say they're 15 15 to trim, make these things even. Then to expose every five, so that could be a little less for that reason. 16 fragment of tissue, then can place them on a slide. 16 And you actually were able to cut much deeper into the 17 17 So in between this kind of process, you block than Dr. Iakovlev did, correct? 18 18 have to trim a lot, make them even. So that process MR. SNELL: Hold on. Form. That's 19 19 maybe 20, 25 percent of tissue will be wasted already. compound on multiple levels. Two, misstates his prior Otherwise we never reach to the same level in a single 20 20 testimony. He didn't agree there were 3,000. And 21 slide. 21 foundation, there's a foundation issue. 22 O. Dr. Iakovlev took 17 sections, and there are 22 Go ahead. 23 potentially 3,000 in those blocks. You have a little bit 23 (By Ms. Thompson) 24 of latitude, don't you? 24 Q. I think the question on the table is you were

25

A. I understand that. Then, additionally,

25

able to cut deeper into the block than Dr. Iakovlev,

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	Page 130		Page 132
1	correct?	1	MR. SNELL: Form.
2	A. Correct.	2	Go ahead.
3	Q. But are you telling me today that you did not	3	A. Yes. I did find mild fibrosis and mild degree
4	have enough of the mesh to properly evaluate Ms. Edwards'	4	of chronic inflammation and a few foreign body giant
5	case?	5	cells.
6	A. I didn't say that. I said, you know, I have	6	(By Ms. Thompson)
7	cut like three slides from each block. Okay? Then I	7	Q. And are those findings typical of the other
8	used one of them to perform neurofilament staining.	8	mesh specimens that you have examined over the years?
9	Neurofilament staining. Okay?	9	A. Correct. They are quite typical.
10	And then within these two stained slides,	10	Q. Looking at the slide and in your opinion,
11	I have seen tissue fragmentation. That's the fact.	11	this is appropriate tissue integration, correct?
12	Q. But you did have enough specimen to make your	12	A. Yes.
13	diagnosis with Ms. Edwards, correct?	13	Q. Looking at the photomicrograph on page 13 with
14	A. To make the staining, basically. Because	14	the exposure, you would not say that's appropriate tissue
15	Dr. Iakovlev already provide multiple level of H&E	15	integration, would you?
16	slides, I have no reason to repeat those.	16	MR. SNELL: Form. Objection.
17	Q. So you had sufficient material	17	I think you misstated.
18	A. To evaluate.	18	(By Ms. Thompson)
19	Q to evaluate?	19	Q. Erosion into the vagina, is that appropriate
20	A. That's right.	20	tissue integration?
21	Q. And, in fact, the deeper cuts that you did	21	MR. SNELL: Same objection. Foundation on
22	actually showed the area of erosion into the vagina,	22	erosion.
23	correct?	23	A. First of all, I think I would like to clarify.
24	A. No.	24	I said here you have squamous mucosa disruption. That
25	MR. SNELL: Form.	25	means noncontinuous. Do you see that on the surface? So
			·
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	Page 131		Page 133
1	A. I did not evaluate the erosion issues for the	1	this is the description. I did not make a conclusion,
1 2	A. I did not evaluate the erosion issues for the sections, for the pictures I provided. These pictures	1 2	this is the description. I did not make a conclusion, what does it mean. Okay?
	A. I did not evaluate the erosion issues for the sections, for the pictures I provided. These pictures are from the slides I receive from Iakovlev.		this is the description. I did not make a conclusion, what does it mean. Okay? Then the second thing is underneath of
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	Page 134		Page 136
1	(Marked for Identification:	1	Q. Is that normal loose connective tissue that
2	Deposition Exhibit No. 10)	2	you usually find in the submucosa of the vagina?
3	(By Ms. Thompson)	3	MR. SNELL: Form.
4	Q. And would you take that Sharpie and show me,	4	A. I should say in normal vagina you should see,
5	mark on there where the mucosal disruption is. You	5	you know, less fibrosis in a normal condition. That's
6	can	6	true. But here you have little bit more fibrotic
7	A. In this area.	7	changes.
8	Q. Okay. You can circle that and put MD.	8	(By Ms. Thompson)
9	A. MD?	9	Q. Well, you have more fibrotic changes than you
10	Q. Yeah. Yes. For mucosal disruption.	10	would in a normal vagina, correct?
11	A. Oh, okay.	11	A. Correct.
12	Q. And I believe you said those white spaces are	12	Q. And doesn't that rule out artifact or a
13	where the mesh was?	13	cutting phenomenon?
14	A. Yes.	14	A. No. Because one existing fact is we have mesh
15	Q. You beat me to it.	15	already very close to the mucosa. Okay? Whether this is
16	A. Okay.	16	a normal finding or not, I can't make a judgment, mainly
17	Q. And is it a normal finding to have mucosal	17	because we know the mesh implantation is from underneath
18	disruption with mesh?	18	of the mucosa, then to outside. Have to go outside,
19	MR. SNELL: Form.	19	right? Go through skin area, that area. So some area
20	A. If there is like erosion, yes. You will see	20	may be just the placement, original placement is very
21	mucosal disruption. Or even surface ulceration, you will	21	close to the mucosa.
22	see that. Okay.	22	Therefore, when you have those conditions,
23	But here when I said the disruption, that	23	you can see more fibrotic changes than in the normal
24	means noncontinuous mucosa. Noncontinuous mucosa can	24	condition. That's perfectly fine.
25	have multiple reasons. One is maybe associated with	25	Q. So this fibrosis that's penetrating the
	D 105	_	D 107
	Page 135	1	Page 137
1	erosion. All right?	1	vaginal wall is perfectly fine?
2	erosion. All right? Two is maybe represented artifact, because	2	vaginal wall is perfectly fine? A. I think we are talking different things.
2 3	erosion. All right? Two is maybe represented artifact, because when you cut the tissue, then tissue can be you know,	2 3	vaginal wall is perfectly fine? A. I think we are talking different things. Whenever if you don't have any like mesh
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Page 138 Page 140 1 whether it's related to erosion, I think erosion is a resulting questions to be answered. 2 2 grossly visible condition. More reliable by clinical You're telling me that in a patient that 3 examination. Therefore, I provide three conditions to clinically has an erosion, you might call this something 3 explain why you have disruption of the mucosa. 4 5 Q. And you know that Tonya Edwards had exposure 5 MR. SNELL: Actually form and foundation. 6 per her surgeon? You're misstating certainly the record as it appeared. 6 7 A. I think based on my reading later on, some --MS. THOMPSON: That's the statement that I one area the surgeon says there is exposure. Then later read this morning to him and he agreed with. 9 9 on says no exposure. So I'm confused whether it's true MR. SNELL: No, no, no, no. You're 10 it has exposure or not. So I'm not in a position to 10 talking about how a person goes into the surgery and 11 testify that part. 11 you're trying to apply that to something that was 12 Q. Did you read her operative report of the mesh 12 supposedly seen during the surgery. That's my objection explant? 13 13 on foundation. I think those are two different things. 14 14 A. I think so, I did. A. So if you want me to make a comment whether 15 MS. THOMPSON: And the operative report, I 15 this go along with erosion, then I said if clinically 16 will mark this as Exhibit 11. 16 there is a definitive erosion, then the finding is 17 17 (Marked for Identification: consistent with the erosion. 18 18 Deposition Exhibit No. 11) (By Ms. Thompson) 19 (By Ms. Thompson) 19 Q. But here today you're perfectly willing to say 20 Q. Under findings of the operative report, pelvic 20 that this could be artifact or a cutting -examination showed eroded mesh along the anterior vaginal 21 21 A. Because as I said, there is no definitive 22 wall. 22 answer for that, because many, you know, situations can 23 23 Would that not be important to you as a generate this picture. That's the overall. pathologist to know there was erosion? 24 O. What causes erosion of mesh? 25 MR. SNELL: Form. 25 A. What's the causes for mesh erosion? I think Page 139 Page 141 A. Well, somehow my impression, yes, I notice I'm the pathologist. I don't know what's the cause for 1 2 erosion. It's better for the clinician to answer. there is one place like this saying that. But there is 3 other place says, you know, there's no obvious exposure 3 But, in general, erosions may be related or did not mention at least for erosion or exposure. to wound healing in general, okay, number one. And also 5 (By Ms. Thompson) surgical skills. When you put there, you need to have, 6 O. Isn't it true that GYN doctors can sometimes you know, correct surgical procedures. It's not everyone 7 not see erosion in the office, but when you have a just can do this without proper training. Okay? 8 patient under anesthesia and you can get better 8 And then also related to patient 9 9 visualization, you can see the erosion? lifestyle, okay, because maybe patient, for whatever 10 So the operative note would be the most 10 reason, have some kind of injury in that area after 11 accurate determination, correct? 11 surgery. Then exposure or erosion may happen. Okay. 12 MR. SNELL: Form. 12 Then patient immune system or immune reactions to see if 13 Go ahead. 13 this area is infected or not. If it's infected, also 14 A. I don't think I'm, you know, in the position 14 will have a risk for invasion. 15 15 to make such a comment, because, in general, maybe this Then which factor plays which role? I'm 16 is a correct statement. So which one I should believe I 16 not in a position to tell. Basically I'm not able to 17 17 tell. But overall situation are related to those don't know. This is the situation. If it's truly 18 18 so-called erosion-related factors. observed some kind of exposure, this may go along with 19 19 that. But as we know, either exposure or erosion is one Q. So are those the only factors that come to 20 20 of the complications for mesh implantation. your mind? 21 (By Ms. Thompson) 21 A. I think overall I mentioned all these factors, 22 Q. So you, as you sit here today, are telling me 22 the main factors may contribute to erosion situation. 23 23 that -- and I'm going back to this morning when you Q. All right. So you mentioned the surgeon and 24 24 testified that the pathologist's interpretation is based the placement of the mesh, correct? 25 on his understanding of the clinical context and A. Right.

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	Page 142		Page 144
1	Q. And you mentioned patient characteristics that	1	well
2	might make them more prone; is that correct?	2	A. Yes.
3	A. Yes.	3	Q correct?
4	Q. And you mentioned immune situations also with	4	You may want to refer to the blowup or the
5	a patient?	5	higher magnification, shall I say, of the same picture,
6	A. Right.	6	because I don't think I have it.
7	Q. And you mentioned if the area is infected. I	7	Describe to me what you see here on this
8	presume you mean infected before you put it in; is that	8	slide.
9	correct?	9	MR. SNELL: You mean beyond all the stuff
10	A. Or can be after that.	10	he put in Figure 5 that you didn't put on this exhibit?
11	Q. Okay. So infection before or after?	11	A. So that's basically Figure 5 you want me to
12	A. Right.	12	describe?
13	Q. And that's a patient characteristic as well?	13	MS. THOMPSON: You mean the text?
14	A. Right. And then whether patient has local	14	MR. SNELL: Yeah. I'll note for the
15	injury, you know, in the mesh area. That also is	15	record this actually has in the report obviously a lot
16	actually is more common factor to contribute to erosion.	16	of a whole paragraph describing what it is. Are you
17	Do you understand?	17	asking him to read that? Because you didn't copy it.
18	Q. Yes. So the TVT-O device itself does not	18	MS. THOMPSON: I'm asking him to mark on
19	cause erosion, in your opinion, unless one of those other	19	the picture
20	factors are present?	20	MR. SNELL: That's a different thing.
21	A. I don't think TVT-O itself will cause erosion,	21	Okay.
22	because overall erosion rate is so low. If TVT mesh	22	(By Ms. Thompson)
23	material itself can cause erosion, then I will see more	23	Q. I'm asking you what this shows and to please
24	than 50 percent of these patients who receive a TVT will	24	mark on the picture what you're describing.
25	have erosion. Is that correct? You think in general, in	25	A. So overall this picture, Figure 5, just shows
	Page 143		Page 145
1	Page 143 common sense?	1	Page 145 minimum or mild degree of fibrosis without scar
1 2	common sense?	1 2	Page 145 minimum or mild degree of fibrosis without scar formation.
	common sense?		minimum or mild degree of fibrosis without scar
2	common sense? Q. What's your basis for that opinion?	2	minimum or mild degree of fibrosis without scar formation.
2 3	common sense? Q. What's your basis for that opinion? A. Well, as you say, you are asking me	2 3	minimum or mild degree of fibrosis without scar formation. Q. And so those areas between the mesh pores
2 3 4	common sense? Q. What's your basis for that opinion? A. Well, as you say, you are asking me Q. Or is it just common sense?	2 3 4	minimum or mild degree of fibrosis without scar formation. Q. And so those areas between the mesh pores you're calling mild or mild to moderate fibrosis?
2 3 4 5	common sense? Q. What's your basis for that opinion? A. Well, as you say, you are asking me Q. Or is it just common sense? A. Right. It's common sense. If this is bad material will contribute for erosion, then majority of	2 3 4 5	minimum or mild degree of fibrosis without scar formation. Q. And so those areas between the mesh pores you're calling mild or mild to moderate fibrosis? A. Minimum or mild fibrosis.
2 3 4 5 6	common sense? Q. What's your basis for that opinion? A. Well, as you say, you are asking me Q. Or is it just common sense? A. Right. It's common sense. If this is bad	2 3 4 5 6	minimum or mild degree of fibrosis without scar formation. Q. And so those areas between the mesh pores you're calling mild or mild to moderate fibrosis? A. Minimum or mild fibrosis. Q. Minimum or mild fibrosis and no scar
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	Page 146		Page 148
1	A. That should be in the general textbook,	1	have give to quantify. When you have everywhere it's
2	pathology textbook.	2	all fibrotic, I mean, severe, extensive, then the
3	Q. I thought scar was laid down in layers so it	3	equivalent to scar.
4	has a parallel appearance to the collagen?	4	Q. So you disagree with the bible of pathology on
5	A. It's not necessarily parallel. They are	5	that one?
6	usually randomly arranged. That's the reason they lost	6	MR. SNELL: Form, foundation.
7	the tissue elasticity. Otherwise you should have certain	7	MS. THOMPSON: I asked him a question.
8	degree of elasticity.	8	MR. SNELL: You called it a bible. He
9	Q. So scar does lose elasticity, you would agree?	9	didn't say it was a bible. He certainly didn't agree
10	A. Correct.	10	that it was the bible. What you read to him doesn't say
11	Q. And you think that this definition of	11	who refers to it simultaneously. He certainly doesn't.
12	haphazardly arranged collagen bundles I would find in a	12	A. I can disagree particular sentence. I didn't
13	pathology textbook as a definition of scar?	13	disagree the whole textbook. I disagree actually many of
14	A. I think so. You should be able to do that.	14	them in the GYN section, because they were written by
15	Q. Is did you say scar and fibrosis are the	15	non-GYN experts in that book.
16	same thing?	16	MS. THOMPSON: We can break.
17	A. No. I said that they are different. Fibrosis	17	THE VIDEOGRAPHER: Off the record 3:39.
18	you have different degrees. And scar is a mature or pure	18	This concludes tape number three.
19	collagen bundles. Two different concepts.	19	(Recess taken.)
20	Q. Is Robbins and Cotran an authoritative	20	THE VIDEOGRAPHER: On the record 3:50.
21	pathology textbook, in your opinion?	21	This begins tape number four.
22	A. That's yes. That's mainly for medical	22	(Marked for Identification:
23	students.	23	Deposition Exhibit No. 13)
24	Q. In fact, would some people say that's the	24	(By Ms. Thompson)
25	bible of pathology?	25	Q. Dr. Zheng, if you would turn to page 17 of
	office of pathology:		Q. Dr. Zheng, if you would turn to page 17 or
	Dags 147		D 140
	Page 147		Page 149
1	MR. SNELL: Foundation, form. Who are	1	Yage 149 your report, and I've handed you Exhibit Number 13. That
1 2	<u> </u>	1 2	_
	MR. SNELL: Foundation, form. Who are		your report, and I've handed you Exhibit Number 13. That
2	MR. SNELL: Foundation, form. Who are these people?	2	your report, and I've handed you Exhibit Number 13. That is the picture that's on that page, correct?
2 3	MR. SNELL: Foundation, form. Who are these people? A. Some people may refer that heavily from	2 3	your report, and I've handed you Exhibit Number 13. That is the picture that's on that page, correct? A. Yes.
2 3 4	MR. SNELL: Foundation, form. Who are these people? A. Some people may refer that heavily from medical students' point of view, yes.	2 3 4	your report, and I've handed you Exhibit Number 13. That is the picture that's on that page, correct? A. Yes. Q. Could you mark for me you said this
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	D 150		D 152
	Page 150		Page 152
1	know if Mrs. Edwards had all of her mesh removed when she	1	(By Ms. Thompson)
2	had her explant surgery?	2	Q. Do you recall ever getting a pathologic
3	A. Based on my impression of reading the	3	specimen other than mesh from the obturator foramen?
4	operative note, it seems it was completely removed.	4	A. No.
5	Q. Do you know if Ms. Huskey had all of her mesh	5	Q. You don't have metas ovarian metastases in
6	removed?	6	the obturator foramen, for example?
7	A. She had one portion seems based on	7	A. Occasionally, yes, cancer can mess through
8	operative records, one portion of the mesh left in the	8	that area. Then usually like, for instance, we have
9	obturator foramen area, because it's quite deep.	9	obturator lymph nodes. That's a common finding, yes.
10	Q. So for Ms. Huskey, then, she would still have	10	Q. So other than cancer spread to the obturator
11	mesh remaining in the skeletal muscle of the hip adductor	11	foramen or the lymph nodes in the area, are you aware of
12	muscles and distal to the obturator foramen, correct?	12	any other benign gynecological conditions that appear in
13	MR. SNELL: Foundation.	13	the obturator foramen or beyond the obturator foramen in
14	A. No. Because I'm not sure. Nothing you	14	the hip adductor muscles?
15	know, this one whether assume this may be related to	15	A. Occasionally we have so-called retroperitoneal
16	that area. And where is located, nobody knows. Whether	16	tumors, and these tumors can be found in those area.
17	it's closely associated to the skeletal muscle or not, we	17	Q. A retroperitoneal tumor is found in the hip
18	don't know, because I don't have the sample. Nobody has	18	adductor muscle?
19	that. It's still within there.	19	A. In the obturator foramen area, yes.
20	(By Ms. Thompson)	20	Q. What type of tumors are those that you've
21	Q. And you're not sure what muscles the TVT-O	21	seen, retroperitoneal tumor in the obturator foramen?
22	goes through getting when it's placed, correct?	22	A. That's more small cell carcinoma or something.
23	MR. SNELL: Misstates.	23	It's maybe not related to this.
24	A. Because the TVT-O is a transobturator	24	Q. So we're still talking about cancer?
25	procedure, then you have to pierce or pass through the	25	A. Yes.
	Page 151		Page 153
1	obturator membrane. That membrane partially has muscles	1	Q. That's your specialty, so I understand that's
2	there.	2	what you like to talk about.
3	(By Ms. Thompson)	3	MR. SNELL: Move to strike.
4	Q. Understand. But you also have to pass from	4	(By Ms. Thompson)
5	the obturator foramen out the skin?	5	Q. I'm going to let's go back to the operative
6	A. Correct.	6	report on Ms. Edwards that I believe you have as
7	Q. And that is the area well, if you do, do	7	Exhibit whatever it is.
8	you know what anatomical structures are in that area?	8	A. You mean this?
9	A. That area within the skin or adjacent area you	9	Q. Yes.
10	may have some skeletal muscle fibers there, that's true.	10	A. It's 11.
11	Q. Okay. But you don't know what muscles those	11	Q. Just for efficiency sake, I'm going to direct
12	are?	12	you to the last paragraph on the second page that begins
13	A. I don't have the name for that.	13	with the anterior wall. And in that it states
14	Q. Yeah. That's fine.	14	Dr. Galloway states that we identified the mesh. Do you
15	Is the obturator space, if you recall this	15	see that?
16	from your training as an OB-GYN or in your reading or	16	A. Yes.
17	viewing of pathology specimens or anything, is the	17	Q. And the mesh was divided in the midline and
18	obturator space an area where the typical gynecological	18	excised on both sides as far as possible into the vaginal
19	surgeon operates?	19	apex.
20	A. Absolutely.	20	Wouldn't that suggest to you that the mesh
21	MR. SNELL: Outside the scope of his	21	was not removed in its entirety?
22	opinion. He's not here to talk about that.	22	A. I can't, you know, have that kind of
23	A. That's within the woman's pelvis, so should be	23	impression. I think he did not say something left there.
24	within that area.	24	Q. Well, if it says it's excised as far as
25		25	possible, doesn't that mean that it's not excised in
1		1	

	Page 154		Page 156
1	total?	1	MS. THOMPSON: Sorry.
2	MR. SNELL: Form.	2	(By Ms. Thompson)
3	A. If the surgeon is not sure whether it's	3	Q. So they're synonymous. If you or I have used
4	completely excised, then he is the person in the position	4	skeletal or striated, we mean the same things?
5	to make that statement. From what he described basically	5	A. Right.
6	in usual situation should be removed.	6	Q. And fortunately they both start with S so
7	(By Ms. Thompson)	7	A. I used SK.
8	Q. From your understanding of pelvic anatomy as a	8	Q. That striated muscle is within the pores of
9	GYN pathologist, is it possible to access the obturator	9	the mesh; is that correct?
10	foramen and the hip adductor muscles through the vagina?	10	A. I'm not sure. This is because several
11	A. It's difficult to, because it's quite deep.	11	millimeter away from the mesh fiber spaces. All right?
12	That's why they have a special trocar to go through that	12	As you can see, in this power I'm not able to include any
13	rather than yes. It's quite deep.	13	mesh. That means already several millimeter away.
14	Q. During insertion there's a special trocar?	14	Q. You would agree with me, though, that the
15	A. Correct.	15	striated muscle is within the fibrosis, correct?
16	Q. Unfortunately there's not a special trocar for	16	A. Within the soft tissue adjacent to the mesh
17	removal, right?	17	fiber. That would be more accurate statement.
18	A. That's true.	18	Q. But this is fibrosis, wouldn't you agree?
19	MR. SNELL: Form.	19	A. No. This is sort of connective tissue,
20	(By Ms. Thompson)	20	because you have so many soft tissues, including vessels
21	Q. And, in fact, transobturator slings typically	21	and fibroblasts and skeletal muscle. So it's adjacent.
22	have to be removed, if you are trying to remove the	22	It's like I think if you can refer back to
23	entire thing, through a groin incision; is that not	23	your gross picture for the specimen, this one, you see
24	correct?	24	these? You can see mesh, right? See that mesh? Then
25	MR. SNELL: Outside the scope.	25	adjacent to the mesh you see these area. They are all
	Page 155		Page 157
1	Page 155 A. That's really not within my specialty,	1	Page 157 soft tissues. So this is several millimeters away.
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	Page 158		Page 160
1	area, represent a mesh. Then adjacent to these mesh, we	1	(By Ms. Thompson)
2	see lots of soft tissues.	2	Q. Okay. Could muscle striated muscle
3	(By Ms. Thompson)	3	adjacent to mesh cause pain?
4	Q. So you have tissue within the mesh, and you	4	A. In a very, very broad sense, maybe there is
5	have tissue adjacent to the mesh, right?	5	association. But these muscle fibers, also you can
6	A. Right. Within the mesh I'm able to see these	6	notice these are so-called isolated foci of these
7	adjacent to immediately adjacent to the skeletal	7	muscular cells. All right? It's different from the
8	muscle, then I will see mesh fiber spaces.	8	muscle like our arm muscles. When we move our arm, we
9	Q. So sorry.	9	have a bunch of these muscle fibers. It's very obvious.
10	A. For instance	10	When we take a section, then we show we will see this.
11	MR. SNELL: Do you want your photos?	11	Under the microscope, we will see pure muscle fibers.
12	A. Yeah, here, like this. You see, these like	12	And here is a few skeletal muscle cells.
13	lots of spaces, like these are spaces, these are mesh	13	It's quite gigantic cells, one big one, you see this one,
14	fiber spaces, right?	14	one dot basically is one cell or part of a single cell.
15	(By Ms. Thompson)	15	Q. But you would assume, would you not, that
16	Q. Correct.	16	those muscle cells are attached to a muscle, correct?
17	A. And then if between these two mesh fiber	17	MR. SNELL: Form.
18	spaces you see these fibrotic mild degree of fibrosis	18	A. No. Because these isolated muscle cells may
19	or soft tissue there, then that's within the mesh fiber,	19	possibly may be related to procedure, as I said, because
20	mesh pores. But this one	20	we have transobturator procedure for the TVT-O procedure,
21	MR. FABRY: Just for the record, Doctor,	21	right? Then this tape is have to pass through
22	you're referring to page 14 of your report, Figure 5, in	22	obturator foramen. Therefore, there is a possibility
23	your last testimony?	23	these small amount of muscle cells being attached or
24	THE WITNESS: Correct.	24	being pulled by the procedure, by the tape.
25	A. And then these skeletal muscles, when I take a	25	
_		_	
	Page 159		Page 161
1	Page 159 photograph, actual mesh fibers are here. I'm not able to	1	Page 161 (By Ms. Thompson)
1 2	_	1 2	_
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	Page 162		Page 164
1	there. That's it.	1	to review that.
2	Q. And muscle cells pulled in in that way	2	Are you ready, Dr. Zheng?
3	could do they have a blood supply, isolated muscle	3	A. That was the meeting happened like 10 years
5	cells?	5	ago? Q. Yes. And I'll give you a little context.
6	A. Here they are adjacent to the blood vessels. See that? These are all blood vessels.	6	Q. Yes. And I'll give you a little context. What is the date on this document?
7		7	A. This says March 29, 2004.
8	Q. So your theory, then, is that those blood vessels there are supplying an isolated group of muscle	8	Q. And do you know when the TVT-O was cleared for
9	cells that were pulled in with the tape seven years	9	marketing in the United States?
10	previously?	10	A. I'm not sure for that.
11	A. When you have a small amount of muscle cells,	11	Q. I'm going to tell you it's December of 2003,
12	you do not need direct vascular supply to keep them	12	if that's okay. We'll assume it is.
13	alive. Okay?	13	Reading in the first paragraph where it
14	Q. Does muscle hurt when it's penetrated by a	14	says, You will find hereafter, could you read me that
15	foreign object?	15	says what this meeting was about? You will find
16	MR. SNELL: Form.	16	hereafter
17	A. When the patient in surgery, she will feel	17	A. I'm not sure I understand what's the main
18	nothing, because that's in the anesthesia condition.	18	purpose for this meeting.
19	(By Ms. Thompson)	19	Q. Okay. Well, it says it's a confidential
20	Q. We will agree on that one. I'm talking about	20	meeting held in Miami and relates to possible
21	afterwards. Does it hurt to put a foreign object through	21	modifications of TVT-O. Is that what it says?
22	muscle?	22	A. Correct.
23	MR. SNELL: Same objection. Form.	23	Q. And so within a few months of marketing, they
24	A. Because that's the procedure already done.	24	are looking at possibly modifying the TVT-O. Would you
25	All right. When you pass through, then if without	25	agree?
	Page 163		Page 165
1	Page 163 anesthesia, possible, sure, will feel hurt. That's why	1	Page 165 MR. SNELL: Foundation.
1 2	anesthesia, possible, sure, will feel hurt. That's why	1 2	MR. SNELL: Foundation.
1 2 3	anesthesia, possible, sure, will feel hurt. That's why you need anesthesia.		MR. SNELL: Foundation. Go ahead.
2	anesthesia, possible, sure, will feel hurt. That's why you need anesthesia. (By Ms. Thompson)	2	MR. SNELL: Foundation.
2 3	anesthesia, possible, sure, will feel hurt. That's why you need anesthesia. (By Ms. Thompson) Q. How about afterwards?	2 3	MR. SNELL: Foundation. Go ahead. A. If that's the date is correct, yes.
2 3 4	anesthesia, possible, sure, will feel hurt. That's why you need anesthesia. (By Ms. Thompson) Q. How about afterwards?	2 3 4	MR. SNELL: Foundation. Go ahead. A. If that's the date is correct, yes. (By Ms. Thompson)
2 3 4 5	anesthesia, possible, sure, will feel hurt. That's why you need anesthesia. (By Ms. Thompson) Q. How about afterwards? A. Afterwards, if you don't do anything, I don't	2 3 4 5	MR. SNELL: Foundation. Go ahead. A. If that's the date is correct, yes. (By Ms. Thompson) Q. And they suggest several modifications,
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1	MR. SNELL: Same objection.	1	A. Compared to other mesh I have seen, yes, they
2	Go ahead.	2	look very much similar.
3	A. Yeah. I think those are mainly surgical	3	Q. Okay. And the majority of the specimens in
4	procedure related. I don't know if my opinion or I'm	4	Dr. Iakovlev's report are specifically identified as
5	the person in this position to make those comments, you	5	either Ms. Edwards' or TVT-O explants, correct?
6	know, when I'm reading through partially through this	6	MR. SNELL: Foundation on that.
7	document.	7	A. I'm not sure. Only six explanted mesh they
8	(Marked for Identification:	8	represented TVT mesh specimen. And the remaining he did
9	Deposition Exhibit No. 15)	9	not say where they are coming from, what kind of brand.
10	(By Ms. Thompson)	10	(By Ms. Thompson)
11	Q. Okay. And I'll also give you an article.	11	Q. Well, according to Dr. Iakovlev's
12	Exhibit Number 15 is a randomized trial. And in the	12	calculations, 72 percent of the pictures are TVT-O
13	results, this article states that more women complained	13	explants. Would you argue with that if that's what he
14	of leg pain after receiving a tension-free vaginal	14	said?
15	tape-obturator, 26.4 percent versus 1.7 percent.	15	MR. SNELL: Foundation and form. I don't
16	Do you see that? Is that what it says?	16	know when he said that.
17	A. Yes.	17	A. Do you also recognize that he said only six
18	Q. 26.4 percent would not be considered rare,	18	explanted TVT mesh actually only six explanted TVT was
19	would it?	19	the mesh was from TVT specimen. So that's why those
20	A. I think I have to read the whole article to	20	figures were conflicting each other from his own report
21	kind of study and decide in which condition to understand	21	if the number you just give to me was true.
22	better those results or the findings or their	22	(By Ms. Thompson)
23	conclusions.	23	Q. And I think that's the photographs in the
24	Q. And you can read the article, but is there any	24	report. But it is what it is.
25	situation where 26.4 percent, over a quarter of women	25	In number two, when you say Dr. Iakovlev's
	Page 167		Page 169
1	Page 167 with any complication, that you would consider that rare?	1	Page 169 cohort is uncontrolled and is not randomly selected, what
1 2	with any complication, that you would consider that rare?	1 2	
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2	with any complication, that you would consider that rare? A. No. Twenty-five around 25 percent findings is reasonably significant.	2	cohort is uncontrolled and is not randomly selected, what
2 3	with any complication, that you would consider that rare? A. No. Twenty-five around 25 percent findings is reasonably significant. Q. And on page 1354, the last paragraph, these	2 3	cohort is uncontrolled and is not randomly selected, what do you mean by that? A. Okay. Because, based on my understanding, his 130 mesh specimens were collected without any like
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- 1 specimens they will be the same thing. No. That's --
- 2 you see the scientific papers, you are quoting lots of
- 3 papers and I'm quoting lots of papers. All these papers
- 4 they publish they have a specific method, right? Then
- 5 all these methods will give you -- give you a reason.
- 6 That's why including case numbers and the study design,
- 7 each of these.
- 8 Q. But you will agree with me that you can't
- $^{\rm 9}$ $\,$ randomize and control an observational study of mesh
- 10 explants, can you?
- MR. SNELL: Form.
- A. But if you have collections, then basically
- 13 these are not studied. Therefore, you cannot use those
- 14 findings to generalize the concept.
- 15 (By Ms. Thompson)
- Q. What's an observational study?
- 17 A. What's -- there is -- what do you mean what's
- 18 observational study?
- Q. I'm asking you the question. Does that mean
- 20 anything to you?
- A. Observational, for instance, you have case
- 22 report. You can report a case. But case report value,
- 23 scientific value compared to randomized study or clinical
- trial, they have totally different value. Okay?
- So then from that point of view,

- 70 Page 172
 - 2 specific like Edwards specimens, then based on my
 - 3 experience in the past years as a GYN pathologist.
 - 4 Right. Also experience to evaluate the mesh specimens in

A. And then also for those evaluations for

- 5 the past three years.
- 6 Q. So your experience is not useless but
- 7 Dr. Iakovlev's is?
- 8 MR. SNELL: Form. Misstates.
- 9 A. I don't say that. I don't know how to respond
 - to this kind of -- you know, your question for that.
- 11 (By Ms. Thompson)
 - Q. Okay. We'll move on.
- What do you mean by the statement TVT
- 14 including TVT-O? Is TVT-O a TVT, in your opinion?
- A. Yes. The mesh from mesh point of view, they are the same.
- Q. From mesh point of view, but you would agree that not from a procedure point of view?
- 19 A. Yeah. Procedure is different.
- Q. Can you direct me to the literature -- and I'm
- 21 looking now at page 18, the first paragraph. Can you
- 22 point me to the literature that recognizes TVT-O as the
- 23 gold standard and standard of care?
 - A. I think we have some professional society
- 25 position statement. Those documents they state very

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- Dr. Iakovlev's collection of these 130 samples, even he
- 2 did not report any of them to the public literature, try
- 3 to make his opinion to be accepted by the general readers
- 4 or audience or to contribute to the scientific community.
- Q. And are you suggesting that, because of that, bis opinions are unreliable?
- 7 A. Basically these are not peer reviewed, not
- 8 under any kind of validation process. Therefore, these
- 9 opinions they're useless.

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- Q. And are your opinions peer reviewed?
- 11 A. My opinion is not peer reviewed. But based on
- the findings, those are just -- because specifically to
- reply to what he stated. That's my opinion. And then
- also my general opinion is based on the literature
- published. Right? You understand?
 - Q. What of your general opinions are based on the
- 17 literature published?
- A. Within this report, like previous one we
- 19 discussed biocompatibility, tissue integration, those are
- 20 the general opinions, right?
 - Q. Okay. We'll get to some more of those later.
- A. And then -- right.
- Q. But you're saying that the opinions in your
- 24 report are based on the literature published, and for
 - that reason are not useless as Dr. Iakovlev's --

- Page 173
- clearly saying TVT and TVT-O are the gold standard.
- 2 MR. SNELL: Do you want your materials?
 - You can look through them.
- (By Ms. Thompson)
- 5 Q. I'm specifically talking about TVT-O as the
- gold standard. And I will give you some time to look for
- the support for that statement.
 - We can -- shall we take a break?
- 9 MR. SNELL: It'll only take a minute. The
- professional statements, he's got a whole binder here.
 MS. FITZPATRICK: If you want to take a
- 12 break, Margaret, you can.
 - MS. THOMPSON: Let's take a break.
- 14 THE VIDEOGRAPHER: Off the record 4:28.
- 15 (Recess taken.)
 - (Ms. Fitzpatrick no longer present.)
- THE VIDEOGRAPHER: On the record 4:44.
- 18 (By Ms. Thompson)
- Q. When we went off the record, Dr. Zheng, I
- 20 believe you were going to look for statements from
- 21 professional societies identifying the TVT-O as the gold
- 22 standard for treatment of stress incontinence. Have you
- found something?A. Yes. I think because in the short time period
 - I had, I can show you one article which is published in

Page 174 Page 176 Nature as a review article by Ashley Cox, C-O-X, okay, (By Ms. Thompson) 2 from University of Toronto. This is also very good 2 Q. And is that the one that you found; that you 3 article because it's published in Nature. That's Nature were not able to find any statements from professional 3 4 urology section. It's last year. 4 organizations? 5 I give you the last sentence of the 5 A. I think we have position statements. Just, abstract. It says, Based on the literature, a new gold you know, this is a lot. If you go through, definitely 6 7 standard of first line surgical treatment for women with it's there. You know, we don't have enough time within SUI, surgical urinary incontinence or stress urinary this time finding specific word or letter-by-letter match 9 incontinence, is the synthetic mid urethral sling 9 statement. But it's there. 10 10 inserted through a retropubic or transobturator approach. MS. THOMPSON: Okay. 11 So here transobturator approach represents 11 MR. SNELL: For the record, you were just 12 TVT-O. You can have this. 12 pointing to one of the binders you brought to your 13 13 Q. Well, I asked for something that actually deposition today. It's titled Position Statements with 14 identified the TVT-O as the gold standard. 14 18 different position statements? 15 A. Yeah. This is basically -- clearly says this 15 THE WITNESS: Yes. 16 is a TVT-O, right? 16 (By Ms. Thompson) 17 17 Q. Well, I beg to differ. It says transobturator Q. Let's go to page 18 of your report. The first 18 slings, and as you know, they're different inside to out, 18 one that states -- and these are now, I guess, criticisms 19 outside to in, different materials, different companies. 19 on page 18 and 19, 1 through 4, of Dr. Iakovlev's 20 A. Well, if you read through, also summarize 20 opinion; is that correct? 21 21 inside to out, outside to in. It also says TVT-O. A. Correct. 22 22 Q. So I'll just read what you've given me. It Q. Number one, you state that he relied too 23 23 says that the gold standard first line surgical treatment heavily on S100 staining. But I believe you've said that is the synthetic mid urethral sling inserted through a a competent pathologist doesn't need any special staining retropubic or transobturator approach, but does not state to identify nerves, so it seems to me that that opinion Page 175 Page 177 what I actually was looking for, that the TVT-O is the is irrelevant. Do you agree? 2 gold standard, and I believe that's what your report 2 MR. SNELL: Form. 3 3 A. No. Because he made a statement -- lots of said. 4 MR. SNELL: Form. Misstates. statements based on S100 staining. Then here what my 5 I think he pointed you to TVT-O inside the point is, if it's real good nerve fibers, they are easily 6 article as well. identifiable, number one. 7 A. Because summary usually people use different Number two is S100 staining is nonspecific 8 word to describe same thing. But you are asking for for nerve fiber only. It cannot only stain nerve fiber, also can stain non-nerve fibers. That's the second 9 9 specific word, single letter-by-letter match. That's the 10 difference. 10 statement. 11 (By Ms. Thompson) 11 (By Ms. Thompson) 12 12 Q. Yeah. I was specifically looking for the Q. But why do you need specificity if you can 13 TVT-O identified as the gold standard. That's true. 13 look at the structure and tell whether it's a nerve or 14 A. TVT-O, yes, has been mentioned. Approach is 14 not? 15 15 A. That's why, you know, he used that. He tried included within their review scope. 16 16 Q. Not to be argumentative, but I believe it's to make these broad colors for these nonprofessionals 17 different from articles with TVT-O included in a review 17 maybe will be happy for, saying, oh, now I can see 18 18 than it is to say that specific TVT-O is the gold because it's highlighted. 19 19 standard, but we'll leave it at that. Q. Do you have a copy of Dr. Iakovlev's report 20 A. Right. Because --20 with you? 21 Q. No, no. There's no question on the table. 21 A. Yes, somewhere.

22

23

24

25

somewhere in...

on that, his report.

MR. SNELL: That's not a question. It

doesn't matter what she thinks. It's your opinions that

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23

24

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are important.

No. I did not bring. But I think

Q. Let's go ahead and find that since you relied

	WEIIXIII ZI.		9, M.D.
	Page 178		Page 180
1	A. But I have one of the pictures, one of the	1	Q. Can you give me the page, please?
2	pictures he took from his basically similar field,	2	A. Page 18, Figure 3a says superficial nerve
3	like	3	position.
4	Q. Yeah. Let's just go ahead and get the report.	4	Q. Okay.
5	A. Okay. You want to get his report, right?	5	A. Did you see that?
6	Q. Yes.	6	Q. So are you suggesting that these are not
7	A. That's fine.	7	nerves?
8	THE WITNESS: Do we have his report?	8	A. Let me explain to you. So you see
9	MR. SNELL: Do you have a copy for him?	9	Q. I'm asking you a question. Do you believe
10	MS. THOMPSON: No, I don't. He brought it	10	that these are not nerves?
11	with his reliance materials, I believe.	11	A. I say these are nerve-like element. You can
12	MR. SNELL: Oh, you have it there?	12	see my report.
13	MR. SNOWDEN: This is my copy.	13	Q. What do you mean by nerve-like element?
14	MR. SNELL: Is it the color copy?	14	A. Because this could be nerve, could not be
15	MR. SNOWDEN: For the record, if there are	15	nerve basically. Okay?
16	any stray markings on that, they're mine.	16	Q. So you can't tell whether these are nerves or
17	(By Ms. Thompson)	17	not?
18	Q. So would you identify for me the portions of	18	A. Because under regular microscope, these not
19	Dr. Iakovlev's report that indicated to you that he	19	like truly identifiable nerve fibers. I can show you a
20	relied too heavily on S100 staining?	20	picture.
21	A. Because in his report many places described	21	Q. Did you take the slide and put it on high
22	S100 staining, number one. He also even described based	22	power and see if you could tell whether they were nerves
23	on S100 staining he made comments, says the nerve	23	or not?
24	so-called nerve densities is about 1.37 per field, which	24	A. Yes, I put on high power.
25	field is under 200 magnifications, right?	25	Q. And you could not tell under high power
	Page 179		Page 181
1	Page 179 O. And that was per high-powered field, correct?	1	Page 181 whether these were nerves or not?
1 2	Q. And that was per high-powered field, correct?	1 2	whether these were nerves or not?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. And that was per high-powered field, correct? A. That's intermediate. Basically it's 20 by 10. It's 200. It's intermediate. Q. So you're suggesting that Dr. Iakovlev made those determinations based on brown spots and not on nerve identification? A. Right. Because this is number one. Number two is whatever he claim as a nerve based on \$100 staining results. Q. But you've stated that a competent pathologist identifies nerves based on the morphology not by the stain anyway, correct? MR. SNELL: Form. Misstates. Go ahead. A. Number one I say if it's well-formed nerve, you don't need staining to recognize, number one. Number two, \$100, yes, can stain these nerve fibers, but meanwhile this is not specific for nerve fibers. Also stains for nonnerve elements. (By Ms. Thompson) Q. Would you show me one of the pictures or the text from Dr. Iakovlev's report that makes you think that he's relying on brown spots rather than the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yeah, for those particular field, all right, he took the picture. Under H&E slide I'm not able to tell those are true nerve. Q. I'm asking you, for this picture on page 18 that you say that you cannot tell whether those are nerves or not, did you take that portion of the slide, look at it under high-powered field, and make a determination whether those were morphologically nerves or not? A. I turn on high power for those particular field from H&E slide. But you have to understand, H&E slide, although they look like parallel levels, but it's not identical to those \$100 staining slide. I don't know if you understand that or not. Because one slide you make H&E, and the deep levels he used for \$100 staining. So, therefore, I examined H&E slide in the corresponding area for him to stain with \$100. I'm not able to identify the nerve under regular light microscope. Q. I'm just showing you this on my computer, because it's, I think, a clearer picture than what we have printed.

	WCIIXIII ZII		- -
	Page 182		Page 184
1	A. Correct.	1	MR. SNELL: Form.
2	Q that you cannot tell whether those are	2	A. No. Because all his statement he said all
3	nerves or not?	3	these brown stained area represent either nerve twigs or
4	A. Those	4	nerve branches.
5	Q. Yes or no, can you tell whether those are	5	(By Ms. Thompson)
6	nerves or not?	6	Q. Where does he say all the brown stained areas
7	A. I cannot be sure.	7	represent nerve twigs or nerve branches? Would you find
8	Q. You cannot be sure. Okay. That's what I need	8	that for me in his report?
9	to hear.	9	A. I think we are wasting a lot of time to find
10	A. That's number one. Then	10	these specific
11	Q. Okay. That's all.	11	Q. I can spend my time any way I want to,
12	MR. SNELL: Well, I think he's allowed to	12	Dr. Zheng.
13	explain his answer. The judge has ruled you can give a	13	A. Okay.
14	yes or no and then explain.	14	Q. I want you to find where he say that all the
15	MS. THOMPSON: It's funny how you told us	15	brown spots are either nerve twigs or branches.
16	last time that the judge told us he has to answer yes or	16	A. Okay. He basically state all these brown
17	no.	17	stainings represent a nerve.
18	MR. SNELL: That's what he did, he just	18	Q. Where are you?
19	answered. But then they're permitted to explain. Your	19	A. Here, let's, for instance, go to Figure 1a,
20	problem was Iakovlev gave me four sentences of nonsense	20	nerve ingrowth. It says page 12. Explanted TVT-O sling
21	and then answered my question.	21	specimen of Mrs. Edwards, immunostaining against S100
22	MS. THOMPSON: I object to that and	22	protein to identify peripheral nerve. Do you see that?
23	strike.	23	Q. Yes.
24	MR. FABRY: I'm going to object to the	24	A. Okay. Nerves brown, all other tissue blue,
25	commentary. If he wants to explain, I think that's okay.	25	mesh filaments transparent, right, all other tissue blue.
	, , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , ,
	Page 183		Page 185
1	Page 183 MS. THOMPSON: Yeah, he can explain.	1	Page 185 So everything brown means nerve. Right? Do I understand
1 2	_	1 2	So everything brown means nerve. Right? Do I understand correctly?
	MS. THOMPSON: Yeah, he can explain.		So everything brown means nerve. Right? Do I understand
2	MS. THOMPSON: Yeah, he can explain. MR. SNELL: Were you finished, Doctor?	2	So everything brown means nerve. Right? Do I understand correctly?
2 3	MS. THOMPSON: Yeah, he can explain. MR. SNELL: Were you finished, Doctor? A. Okay. So let me give you additional explanation why I say S100 is nonspecific. Okay? From his picture, the same picture, you can look at your	2 3	So everything brown means nerve. Right? Do I understand correctly? Q. He says the nerves are brown? Where does
2 3 4	MS. THOMPSON: Yeah, he can explain. MR. SNELL: Were you finished, Doctor? A. Okay. So let me give you additional explanation why I say S100 is nonspecific. Okay? From	2 3 4	So everything brown means nerve. Right? Do I understand correctly? Q. He says the nerves are brown? Where does he
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2 3 4 5 6	MS. THOMPSON: Yeah, he can explain. MR. SNELL: Were you finished, Doctor? A. Okay. So let me give you additional explanation why I say S100 is nonspecific. Okay? From his picture, the same picture, you can look at your screen, you see the brown spots, okay, are stainings.	2 3 4 5 6	So everything brown means nerve. Right? Do I understand correctly? Q. He says the nerves are brown? Where does he A. Nerves are brown, yes. Nerves are brown. Then what else? Then here
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. THOMPSON: Yeah, he can explain. MR. SNELL: Were you finished, Doctor? A. Okay. So let me give you additional explanation why I say S100 is nonspecific. Okay? From his picture, the same picture, you can look at your screen, you see the brown spots, okay, are stainings. Not only present in the submucosal area, it's also present within the squamous mucosa. Did you see that? (By Ms. Thompson) Q. Did Dr. Iakovlev make any comment on the brown spots in the mucosa? A. He did not, but Q. He only made a comment, correct, on the nerve branches between the mesh and the mucosa, correct? A. He says superficial position. Okay? Q. Well, he says the nerves are running between the hard mesh and the mucosa, correct? A. Right. But the picture he take he took here clearly show brown staining in the mucosa as well as submucosa area. Right? Q. And the brown staining on low-powered field	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	So everything brown means nerve. Right? Do I understand correctly? Q. He says the nerves are brown? Where does he A. Nerves are brown, yes. Nerves are brown. Then what else? Then here Q. I'm asking you for where in the report does Dr. Iakovlev say every brown spot is nerves? A. Nerves brown. What else? MR. SNELL: He just told you. (By Ms. Thompson) Q. Okay. Show me in the picture on page that you're on A. Right. Q the brown spots that are not nerves. A. Like here. In Figure 3a, page 18. Okay? We have MR. FABRY: Just for the record, we're moving from page 12, Figure 1a, and now we're looking where? THE WITNESS: Page 18, 3a. Because it's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. THOMPSON: Yeah, he can explain. MR. SNELL: Were you finished, Doctor? A. Okay. So let me give you additional explanation why I say \$100 is nonspecific. Okay? From his picture, the same picture, you can look at your screen, you see the brown spots, okay, are stainings. Not only present in the submucosal area, it's also present within the squamous mucosa. Did you see that? (By Ms. Thompson) Q. Did Dr. Iakovlev make any comment on the brown spots in the mucosa? A. He did not, but Q. He only made a comment, correct, on the nerve branches between the mesh and the mucosa, correct? A. He says superficial position. Okay? Q. Well, he says the nerves are running between the hard mesh and the mucosa, correct? A. Right. But the picture he take he took here clearly show brown staining in the mucosa as well as submucosa area. Right? Q. And the brown staining on low-powered field allows you to save time, go into the area where the brown	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So everything brown means nerve. Right? Do I understand correctly? Q. He says the nerves are brown? Where does he A. Nerves are brown, yes. Nerves are brown. Then what else? Then here Q. I'm asking you for where in the report does Dr. Iakovlev say every brown spot is nerves? A. Nerves brown. What else? MR. SNELL: He just told you. (By Ms. Thompson) Q. Okay. Show me in the picture on page that you're on A. Right. Q the brown spots that are not nerves. A. Like here. In Figure 3a, page 18. Okay? We have MR. FABRY: Just for the record, we're moving from page 12, Figure 1a, and now we're looking where? THE WITNESS: Page 18, 3a. Because it's continuous, right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. THOMPSON: Yeah, he can explain. MR. SNELL: Were you finished, Doctor? A. Okay. So let me give you additional explanation why I say S100 is nonspecific. Okay? From his picture, the same picture, you can look at your screen, you see the brown spots, okay, are stainings. Not only present in the submucosal area, it's also present within the squamous mucosa. Did you see that? (By Ms. Thompson) Q. Did Dr. Iakovlev make any comment on the brown spots in the mucosa? A. He did not, but Q. He only made a comment, correct, on the nerve branches between the mesh and the mucosa, correct? A. He says superficial position. Okay? Q. Well, he says the nerves are running between the hard mesh and the mucosa, correct? A. Right. But the picture he take he took here clearly show brown staining in the mucosa as well as submucosa area. Right? Q. And the brown staining on low-powered field allows you to save time, go into the area where the brown staining is, and then morphologically, which is all what	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	So everything brown means nerve. Right? Do I understand correctly? Q. He says the nerves are brown? Where does he A. Nerves are brown, yes. Nerves are brown. Then what else? Then here Q. I'm asking you for where in the report does Dr. Iakovlev say every brown spot is nerves? A. Nerves brown. What else? MR. SNELL: He just told you. (By Ms. Thompson) Q. Okay. Show me in the picture on page that you're on A. Right. Q the brown spots that are not nerves. A. Like here. In Figure 3a, page 18. Okay? We have MR. FABRY: Just for the record, we're moving from page 12, Figure 1a, and now we're looking where? THE WITNESS: Page 18, 3a. Because it's continuous, right? A. Then after he explains Figure 1a, then sure in

	WCIIXIII ZII		
	Page 186		Page 188
1	(By Ms. Thompson)	1	The record is getting jumbled with statements.
2	Q. Do you think are you are you opining	2	(By Ms. Thompson)
3	that Dr. Iakovlev is not competent to identify nerves	3	Q. Dr. Zheng, I actually don't think I ever got
4	with whatever stain?	4	an answer to the question that was on the table, and that
5	A. I think he used	5	is, is there a place in this report where Dr. Iakovlev
6	Q. You can answer that yes or no and then	6	identifies a nerve that you disagree that that is, in
7	explain.	7	fact, a nerve?
8	MR. SNELL: She asked the question. You	8	And I'd really ask for a yes or no
9	can answer it however you want.	9	question, and then you can explain afterwards.
10	MS. THOMPSON: You said he has to answer	10	A. First of all
11	yes or no and then explain. Now you're saying	11	MR. SNELL: If you need to take your time
12	MR. SNELL: That's fine.	12	and go through every picture and every page, we'll do
13	She asked you a question.	13	that. That's what she's asking you to do.
14	A. Yes. I think he somehow, you know, used S100	14	A. I think whatever he point out, those brown
15	staining just too much to he understands the	15	stainings, I should say it's possibly nerve.
16	limitation of S100 staining for the nerve staining.	16	(By Ms. Thompson)
17	Meanwhile he still used that to make all the statements	17	Q. It's possibly nerve?
18	based on the staining results.	18	A. Right.
19	(By Ms. Thompson)	19	Q. You can't say definitively that those are
20	Q. And is there any portion of his report that he	20	nerves?
21	identifies nerves that you like any place where he	21	
22	· · · · · · · · · · · · · · · · · · ·	22	A. I cannot say definitively he's wrong or
	points to nerves that you would say that is not a nerve?		definitively he's right.
23	Is there any place in the report where	23	Q. Okay. We'll move on.
24	Dr. Iakovlev points to a nerve that you are saying is not	24	A. Okay?
25	a nerve?	25	Q. Yup.
		_	
	Page 187		Page 189
1	_	1	
1 2	A. But in many places I think some pictures are	1 2	In number two, your contention is that
	A. But in many places I think some pictures are too low powered. It's difficult to say.		In number two, your contention is that stress incontinence, dysuria, need to change position or
2	A. But in many places I think some pictures are too low powered. It's difficult to say. But what I want to make the point is S100	2	In number two, your contention is that stress incontinence, dysuria, need to change position or initiate or complete emptying, nocturia are related to
2 3	A. But in many places I think some pictures are too low powered. It's difficult to say. But what I want to make the point is \$100 is not specific. I think he agreed on that. Right?	2	In number two, your contention is that stress incontinence, dysuria, need to change position or initiate or complete emptying, nocturia are related to mesh migration and shrinkage has no scientific basis. Do
2 3 4	A. But in many places I think some pictures are too low powered. It's difficult to say. But what I want to make the point is \$100 is not specific. I think he agreed on that. Right? Q. Oh, he will agree.	2 3 4	In number two, your contention is that stress incontinence, dysuria, need to change position or initiate or complete emptying, nocturia are related to mesh migration and shrinkage has no scientific basis. Do you read that?
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2 3 4 5 6	A. But in many places I think some pictures are too low powered. It's difficult to say. But what I want to make the point is \$100 is not specific. I think he agreed on that. Right? Q. Oh, he will agree. A. He agreed. Q. I ask the questions. But I think he will	2 3 4 5 6	In number two, your contention is that stress incontinence, dysuria, need to change position or initiate or complete emptying, nocturia are related to mesh migration and shrinkage has no scientific basis. Do you read that? A. Yes. Q. Such conclusions are subjective in nature.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. But in many places I think some pictures are too low powered. It's difficult to say. But what I want to make the point is \$100 is not specific. I think he agreed on that. Right? Q. Oh, he will agree. A. He agreed. Q. I ask the questions. But I think he will agree that \$100 is not specific. A. Right. Q. But he's not using it for specificity. He's using it for sensitivity so he can then go to a high power, find the nerves, identify the nerves morphologically, and count the nerves. A. So therefore MR. SNELL: Is there a question, Counsel? MS. THOMPSON: He asked me a question. I was answering. But you're right, no, there was no question. MR. SNELL: Move to strike. MS. THOMPSON: Let's move on. (By Ms. Thompson) Q. Okay. Let's move on to number	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	In number two, your contention is that stress incontinence, dysuria, need to change position or initiate or complete emptying, nocturia are related to mesh migration and shrinkage has no scientific basis. Do you read that? A. Yes. Q. Such conclusions are subjective in nature. What's your basis for saying that those have no scientific basis? A. Because he did not provide scientific basis. He did not provide all these all the evidence saying this is scientific evidence. Q. Have you looked at Dr. Iakovlev's references on his reliance list attached to his report? A. I have looked some of them, yes, sure. Q. So how do you know that he does not have a basis for those opinions? And the question, what is your basis for saying that there is no basis for those for incontinence, dysuria A. Because there is no evidence showing the mesh is migrating or migrating to certain positions from

	Page 190		Page 192
1	A. Mesh may be migrated, but what is evidence for	1	then without evidence of similar evidence to support
2	Edwards case? He did not show.	2	for this particular patient, I don't know how can you
3	Q. Are you aware of literature with mesh erosion	3	conclude that. That's another thing.
4	to the urethra?	4	Q. So you're not aware of any articles that
5	A. Mesh erosion, yes, has been reported.	5	correlate the shrinkage and contraction of a
6	Q. Are you aware of literature with mesh movement	6	transobturator tape with urinary symptoms?
7	from the mid urethra to the bladder neck?	7	MR. SNELL: Form.
8	A. That has been reported but	8	Go ahead.
9	Q. And could not could not that cause some of	9	A. I'm not aware of that.
10	the symptoms that are described here by Dr. Iakovlev?	10	(By Ms. Thompson)
11	MR. SNELL: Form.	11	Q. But if that did exist, then your claim that
12	A. But you cannot translate from	12	Dr. Iakovlev's opinions has no scientific basis would be
13	(By Ms. Thompson)	13	false, correct?
14	Q. Yes or no and then explain.	14	A. No. Because, as I said, he said all these
15	A. Okay. Yes. From those particular situations,	15	symptoms are related to the mesh migration and shrinking.
16	yes, you can explain those conditions. However, there is	16	That's the statement. Then he used this statement to
17	no evidence from Edwards case to support there is mesh	17	refer to this particular patient. But meanwhile he did
18	migrating or mesh shrinking.	18	not provide evidence of shrinking as well as evidence of
19	Q. And you're aware of the literature describing	19	migration.
20	mesh shrinkage, correct?	20	Therefore, he used one concept from one
21	A. I'm not sure I'm aware mesh will shrink.	21	place to apply to this particular patient. That's the
22	Q. You're not aware of mesh literature stating	22	reason I say there is no scientific basis.
23	that mesh shrinks 20 to 50 percent?	23	Q. So are you suggesting that if you have
24	MR. SNELL: Form.	24	literature that says that a patient's symptom can be
25	A. You mean the space or the material itself?	25	caused or is caused by a particular situation and you
	- 101		D 102
	Page 191		Page 193
1	I'm not sure what you are referencing. Like mesh fiber	1	have a patient that has that same situation, that not
2	filament from the certain thickness to	2	that you that if you make the opinion that in this
3	(By Ms. Thompson)	3	patient that you're looking at her symptom is caused by
4	Q. Would you look at Exhibit the Cobb article.	4	the same situation, that that has no scientific basis?
5	I don't recall what exhibit that is. The Argument for	5	MR. SNELL: Form.
6	Lightweight Polypropylene Mesh in Hernia Repair.	6	Go ahead. (By Ms. Thompson)
7	A. That's Exhibit 6.	7	(BV Ms. I nompson)
8	Q. And on page 67, degree of shrinkage, in that	8	Q. Is that what you're saying?
9	first paragraph, it states, All available meshes,	9	Q. Is that what you're saying?A. I think you can understand it that way. But I
9	first paragraph, it states, All available meshes, regardless of their composition, experience a 20 to	9	Q. Is that what you're saying?A. I think you can understand it that way. But I can give you another scenario. Many other patients,
9 10 11	first paragraph, it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction in their initial size.	9 10 11	Q. Is that what you're saying? A. I think you can understand it that way. But I can give you another scenario. Many other patients, without any removal of those implants, they may have more
9 10 11 12	first paragraph, it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction in their initial size. Would you agree with that?	9 10 11 12	Q. Is that what you're saying? A. I think you can understand it that way. But I can give you another scenario. Many other patients, without any removal of those implants, they may have more or less same symptoms. Then can you say, okay, since you
9 10 11 12 13	first paragraph, it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction in their initial size. Would you agree with that? A. Which sentence you are talking about?	9 10 11 12 13	Q. Is that what you're saying? A. I think you can understand it that way. But I can give you another scenario. Many other patients, without any removal of those implants, they may have more or less same symptoms. Then can you say, okay, since you have these symptoms, you must have shrinking or migration
9 10 11 12 13 14	first paragraph, it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction in their initial size. Would you agree with that? A. Which sentence you are talking about? Q. Page 67, the paragraph head is Degree of	9 10 11 12 13 14	Q. Is that what you're saying? A. I think you can understand it that way. But I can give you another scenario. Many other patients, without any removal of those implants, they may have more or less same symptoms. Then can you say, okay, since you have these symptoms, you must have shrinking or migration of the mesh? Can you say that? No.
9 10 11 12 13 14 15	first paragraph, it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction in their initial size. Would you agree with that? A. Which sentence you are talking about? Q. Page 67, the paragraph head is Degree of Shrinkage. And it states, All available meshes,	9 10 11 12 13 14 15	Q. Is that what you're saying? A. I think you can understand it that way. But I can give you another scenario. Many other patients, without any removal of those implants, they may have more or less same symptoms. Then can you say, okay, since you have these symptoms, you must have shrinking or migration of the mesh? Can you say that? No. Q. I believe you can have a different opinion,
9 10 11 12 13 14 15	first paragraph, it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction in their initial size. Would you agree with that? A. Which sentence you are talking about? Q. Page 67, the paragraph head is Degree of Shrinkage. And it states, All available meshes, regardless of their composition, experience a 20 to	9 10 11 12 13 14 15	Q. Is that what you're saying? A. I think you can understand it that way. But I can give you another scenario. Many other patients, without any removal of those implants, they may have more or less same symptoms. Then can you say, okay, since you have these symptoms, you must have shrinking or migration of the mesh? Can you say that? No. Q. I believe you can have a different opinion, but can you say that it has no scientific basis when
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9 10 11 12 13 14 15 16 17	first paragraph, it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction in their initial size. Would you agree with that? A. Which sentence you are talking about? Q. Page 67, the paragraph head is Degree of Shrinkage. And it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction of their initial size. A. It's not clear whether it's the mesh fiber,	9 10 11 12 13 14 15 16 17	Q. Is that what you're saying? A. I think you can understand it that way. But I can give you another scenario. Many other patients, without any removal of those implants, they may have more or less same symptoms. Then can you say, okay, since you have these symptoms, you must have shrinking or migration of the mesh? Can you say that? No. Q. I believe you can have a different opinion, but can you say that it has no scientific basis when there are plenty of articles that address exactly this? That's my question.
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9 10 11 12 13 14 15 16 17 18 19	first paragraph, it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction in their initial size. Would you agree with that? A. Which sentence you are talking about? Q. Page 67, the paragraph head is Degree of Shrinkage. And it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction of their initial size. A. It's not clear whether it's the mesh fiber, like the diameter of the fiber, has been reduced to 20 to 50 percent or the overall mesh fiber after implantation	9 10 11 12 13 14 15 16 17 18 19 20	Q. Is that what you're saying? A. I think you can understand it that way. But I can give you another scenario. Many other patients, without any removal of those implants, they may have more or less same symptoms. Then can you say, okay, since you have these symptoms, you must have shrinking or migration of the mesh? Can you say that? No. Q. I believe you can have a different opinion, but can you say that it has no scientific basis when there are plenty of articles that address exactly this? That's my question. MR. SNELL: Form. (By Ms. Thompson)
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9 10 11 12 13 14 15 16 17 18 19	first paragraph, it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction in their initial size. Would you agree with that? A. Which sentence you are talking about? Q. Page 67, the paragraph head is Degree of Shrinkage. And it states, All available meshes, regardless of their composition, experience a 20 to 50 percent reduction of their initial size. A. It's not clear whether it's the mesh fiber, like the diameter of the fiber, has been reduced to 20 to 50 percent or the overall mesh fiber after implantation	9 10 11 12 13 14 15 16 17 18 19 20	Q. Is that what you're saying? A. I think you can understand it that way. But I can give you another scenario. Many other patients, without any removal of those implants, they may have more or less same symptoms. Then can you say, okay, since you have these symptoms, you must have shrinking or migration of the mesh? Can you say that? No. Q. I believe you can have a different opinion, but can you say that it has no scientific basis when there are plenty of articles that address exactly this? That's my question. MR. SNELL: Form. (By Ms. Thompson)

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answered.

A. Based on this particular patient, yes, he has

A. Right. Then, again, for the articles like

cited usually if you use the information from articles,

24

	WEIIXIII ZII		- ·
	Page 194		Page 196
1	no scientific basis to say to make this statement.	1	(Marked for Identification:
2	(By Ms. Thompson)	2	Deposition Exhibit No. 16)
3	Q. Okay. I'll leave it.	3	(By Ms. Thompson)
4	Number three, your opinion is that the	4	Q. So this is 21. It's not as good as the
5	this pure scar thing, which I have not seen a definition	5	picture electronically.
6	for in the literature, but you're saying that the	6	A. Right.
7	hardening and deformation does not occur until the scar	7	Q. But could you mark that with a Sharpie. And
8	is mature? Am I interpreting that correctly?	8	if that's loose connective tissue, would you just write
9	MR. SNELL: No. Form. Move to strike	9	LCT on that or whatever.
10	your earlier comment about your perusal of the	10	A. Then here is more dense, okay, DT. One is
11	literature. And misstates his opinion. He says the	11	LCT, one is
12	theory about mesh hardening and deformation.	12	Q. Okay. And do you see what Dr. Iakovlev
13	(By Ms. Thompson)	13	identifies as congested vessels?
14	Q. You can answer my question.	14	A. Yes.
15	A. Can you repeat your question, please?	15	Q. And would you agree that that is a congested
16	Q. You're saying that your findings do not	16	vessel
17	support Dr. Iakovlev's opinion that the hardening and	17	A. That's fine.
18	deformation of the mesh is induced by scar formation	18	Q vessels?
19	within the mesh?	19	Okay. So go ahead and put on this one I
20	A. Correct. Basically we have I have found	20	handed you the congested vessels.
21	good tissue integration within the mesh pores. Okay?	21	A. He already point out. I agree that.
22	So, therefore, there is no pure scar formation.	22	Q. Yeah. So just agree. You can still mark it
23	Q. But there is fibrosis, correct?	23	even if you agree on where you see congested vessels.
24	A. As I said, we have fibrosis. We have a mild	24	And would you agree with me that congested
25	degree of fibrosis.	25	vessels are often associated with edema?
	D 105	_	D 107
	Page 195		Page 197
1	Q. And is there any areas that you can point me	1	A. They can be associated. Can be also related
2	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have	2	A. They can be associated. Can be also related to the surgical procedure.
2 3	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have loose connective tissue?	2 3	A. They can be associated. Can be also related to the surgical procedure.Q. Well, would it be related to the surgical
2 3 4	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have loose connective tissue? And, if so, what percentage would you say	2 3 4	A. They can be associated. Can be also related to the surgical procedure. Q. Well, would it be related to the surgical procedure a year or five years later?
2 3 4 5	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have loose connective tissue? And, if so, what percentage would you say have loose connective tissue versus scar versus	2 3 4 5	 A. They can be associated. Can be also related to the surgical procedure. Q. Well, would it be related to the surgical procedure a year or five years later? A. Because yes, sure, sure.
2 3 4 5 6	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have loose connective tissue? And, if so, what percentage would you say have loose connective tissue versus scar versus fibrosis, which, at least by Robbins, is the same as	2 3 4 5 6	 A. They can be associated. Can be also related to the surgical procedure. Q. Well, would it be related to the surgical procedure a year or five years later? A. Because yes, sure, sure. Q. Unless there's mesh?
2 3 4 5 6 7	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have loose connective tissue? And, if so, what percentage would you say have loose connective tissue versus scar versus fibrosis, which, at least by Robbins, is the same as scar?	2 3 4 5 6	A. They can be associated. Can be also related to the surgical procedure. Q. Well, would it be related to the surgical procedure a year or five years later? A. Because yes, sure, sure. Q. Unless there's mesh? A. No. You have removed the specimen. Then
2 3 4 5 6 7 8	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have loose connective tissue? And, if so, what percentage would you say have loose connective tissue versus scar versus fibrosis, which, at least by Robbins, is the same as scar? MR. SNELL: Form.	2 3 4 5 6 7 8	A. They can be associated. Can be also related to the surgical procedure. Q. Well, would it be related to the surgical procedure a year or five years later? A. Because yes, sure, sure. Q. Unless there's mesh? A. No. You have removed the specimen. Then before specimen removed, then some area like vessels
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2 3 4 5 6 7 8 9	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have loose connective tissue? And, if so, what percentage would you say have loose connective tissue versus scar versus fibrosis, which, at least by Robbins, is the same as scar? MR. SNELL: Form. A. For instance, here, he interpret this area in his Figure 5 on page 21, see on the top panel, we have	2 3 4 5 6 7 8 9	A. They can be associated. Can be also related to the surgical procedure. Q. Well, would it be related to the surgical procedure a year or five years later? A. Because yes, sure, sure. Q. Unless there's mesh? A. No. You have removed the specimen. Then before specimen removed, then some area like vessels being clamped to stop the bleeding, then those area may represent congested vessels. Then as soon as congestion
2 3 4 5 6 7 8 9 10	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have loose connective tissue? And, if so, what percentage would you say have loose connective tissue versus scar versus fibrosis, which, at least by Robbins, is the same as scar? MR. SNELL: Form. A. For instance, here, he interpret this area in his Figure 5 on page 21, see on the top panel, we have two mesh fibers. One is on the top, the other in the	2 3 4 5 6 7 8 9 10	A. They can be associated. Can be also related to the surgical procedure. Q. Well, would it be related to the surgical procedure a year or five years later? A. Because yes, sure, sure. Q. Unless there's mesh? A. No. You have removed the specimen. Then before specimen removed, then some area like vessels being clamped to stop the bleeding, then those area may represent congested vessels. Then as soon as congestion is present, after fixation they are always present, so no
2 3 4 5 6 7 8 9 10 11	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have loose connective tissue? And, if so, what percentage would you say have loose connective tissue versus scar versus fibrosis, which, at least by Robbins, is the same as scar? MR. SNELL: Form. A. For instance, here, he interpret this area in his Figure 5 on page 21, see on the top panel, we have two mesh fibers. One is on the top, the other in the bottom. Do you see that?	2 3 4 5 6 7 8 9 10 11	A. They can be associated. Can be also related to the surgical procedure. Q. Well, would it be related to the surgical procedure a year or five years later? A. Because yes, sure, sure. Q. Unless there's mesh? A. No. You have removed the specimen. Then before specimen removed, then some area like vessels being clamped to stop the bleeding, then those area may represent congested vessels. Then as soon as congestion is present, after fixation they are always present, so no matter how many years later.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. And is there any areas that you can point me to in either Dr. Iakovlev's or your slides that have loose connective tissue? And, if so, what percentage would you say have loose connective tissue versus scar versus fibrosis, which, at least by Robbins, is the same as scar? MR. SNELL: Form. A. For instance, here, he interpret this area in his Figure 5 on page 21, see on the top panel, we have two mesh fibers. One is on the top, the other in the bottom. Do you see that? (By Ms. Thompson) Q. 21, correct? A. Yeah. Right? Okay. And then this area basically showing here you can have loose connective	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. They can be associated. Can be also related to the surgical procedure. Q. Well, would it be related to the surgical procedure a year or five years later? A. Because yes, sure, sure. Q. Unless there's mesh? A. No. You have removed the specimen. Then before specimen removed, then some area like vessels being clamped to stop the bleeding, then those area may represent congested vessels. Then as soon as congestion is present, after fixation they are always present, so no matter how many years later. Q. Number four, Dr. Iakovlev performed a stretch test. How can you tell from the pictures that the mesh retained pores well over one thousand microns? Could you please explain that to me?
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	Page 198		Page 200
1	whether this kind of material is stretchable or	1	MS. THOMPSON: We can break.
2	nonstretchable.	2	THE VIDEOGRAPHER: Off the record 5:24.
3	Q. As a pathologist trying to determine the cause	3	This concludes tape number four.
4	of a particular condition or situation, do you have to	4	(Recess taken.)
5	have a published protocol to do your experiment to help	5	THE VIDEOGRAPHER: On the record 5:36.
6	you understand what is going on with a patient's	6	This begins tape number five.
7	pathology?	7	THE WITNESS: Can I add something before
8	A. Oh, definitely. You need even IRB,	8	you we proceed?
9	Institutional Review Board, to approve for any test	9	MS. THOMPSON: Yes.
10	applied for the patient.	10	THE WITNESS: Regarding S100 nerve-related
11	Q. So if I gave you this and you were trying to	11	issues, I think that Dr. Iakovlev's report, page 18,
12	understand how mesh works in the body, you would need IRB	12	Figure 3a, and we discussed these brown spots present not
13	approval to stretch it and see what happened with the	13	only in the submucosal area, also I want to emphasize
14	mesh?	14	these brown spots also present in the squamous mucosa.
15	A. Nobody is doing that, because I based on my	15	Okay?
16	understanding these medical device, before release to the	16	And then this figure is relatively small,
17	market, a proper test should have been done.	17	so within the similar field, I took the picture which
18	Q. What tests?	18	presented in my report in Figure 6, and then this is
19	A. And, plus, as a pathologist, even single mesh	19	blowup for that picture. See that? You can see these
20	you stretch them, then try to conclude something, these	20	spots not only present in the sub this is squamous
21	all nonsense, because you never can conclude something	21	mucosa, these are submucosa area, which should have
22	based on this kind of just pull and then say something,	22	nerve. Then here in the mucosa should not have any
23	you know, this is the test. Say after stretching, then	23	nerve, but still has lots of brown spots. Okay? This is
24	it will change the pore.	24	one point.
25	Q. What tests were done on TVT-O before it came	25	And then to illustrate the point of S100
	Page 199		Page 201
1	to market?	1	is nonspecific, I used neurofilament staining, which
2	A. These are very specific question. I don't	2	shows in my report, I think Figure 7, page 16. This is
3	know what kind of tests have been performed.	3	relatively small one, so, therefore, this is a blowout
4	Q. You don't know any tests that were done on	4	picture.
5	TVT-O?	5	Here you can see the mucosa area and
6	A. That belongs to material. That's not in my	6	submucosa. Submucosa area it's a darker stain, it's
7	specialty.	7	relatively brown or black staining here. These identify
8	Q. And you don't know any clinical testing done	8	very tiny nerve fibers. They're true nerve fibers, which
9	on TVT-O prior to being brought to market?	9	is also based on morphology, not identifiable if I read
10	A. I believe there have there have been like a	10	H&E, because that's too small.
11	safety test and then efficiency test and animal studies	11	However, they can be clearly identified by
12	as well as some human population studies before that.	12	using neurofilament staining, which you can see within
13	Q. So what efficiency tests would have to be done	13	the mucosa, squamous mucosa, there is no any single black
14	prior to marketing?	14	or neurofilament staining.
15	A. Again, I'm not in this field. You know,	15	(Marked for Identification:
16	usually what specifically related to this question, I can	16	Deposition Exhibit No. 17)
17	tell you I don't know.	17	(By Ms. Thompson)
18	Q. And what safety tests would need to be done	18	Q. We'll mark your neurofilament as 17.
10	before bringing it to market?	19	But you will agree with me that the only
19	A. Safety tests in general should have, first of	20	nerves that Dr. Iakovlev comments on as nerves are those
20		1	
	all, it's safe. That means do not generate systemic or	21	here in the submucosa? He doesn't say anything about
20		21 22	anything in the mucosa, correct? Is that correct?
20 21	all, it's safe. That means do not generate systemic or local toxicity for tissue, for human tissue. Okay? Q. And that would need to be human tissue,		anything in the mucosa, correct? Is that correct? A. It's partially correct. Mainly because he
20 21 22	all, it's safe. That means do not generate systemic or local toxicity for tissue, for human tissue. Okay?	22	anything in the mucosa, correct? Is that correct?
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	Page 202		Page 204
1	Q. Okay. I'm just going to read the caption on	1	polypropylene is nondegradable in a human body?
2	that figure that you have shown us, and it says,	2	A. Because what I have seen from my practice, I
3	Ms. Edwards' specimen. The nerves are running between	3	did not see any evidence of these degradation.
4	the hard mesh and the mucosa. At this location an	4	Q. Have you looked for degradation in your
5	external pressure intercourse can compress the nerves	5	practice?
6	against the hardened mesh.	6	A. I looked from under microscope.
7	And, Dr. Zheng, at the break I promised	7	Q. And what would you what were you looking
8	A. I	8	for?
9	Q. There's no question on the table.	9	A. For instance, degradation is typically like
10	A. I understand. But I did not finish my	10	missing a piece, right? Number one.
11	statement yet.	11	Number two is irregular in certain area or
12	Q. I just have a certain amount of time, so I'm	12	surface area become irregularity. All right? Then some
13	going to ask that we move on.	13	maintains like or partially at least maintain the mesh
14	A. Okay.	14	property.
15	Q. And I also promised the court reporter at the	15	Q. Have you looked for surface area
16	break that we would try to do better about not	16	irregularities in your practice?
17	interrupting each other and talking over each other, so	17	A. Yes.
18	let's try to do that.	18	Q. How?
19	A. Okay. So which page?	19	A. Under microscope, turn on a higher power.
20	Q. Does pressure on a nerve cause pain?	20	Q. Have you looked at surface irregularities
21	A. Which page we at?	21	under electron microscope?
22	Q. I'm not on a page. I'm just asking a	22	A. No.
23	question.	23	Q. And what is your what is the basis for your
24	A. Okay.	24	opinion that so the basis for your opinion that it's
25	Q. Does pressure on a nerve cause pain?	25	nondegradable is your personal experience of looking for
	Page 203		Page 205
	1 uge 203		
1	A Pressure on nerve in general can cause pain	1	_
1 2	A. Pressure on nerve, in general, can cause pain. O. And how many nerves does it take to cause	1 2	degradation under the microscope, correct?
2	Q. And how many nerves does it take to cause	2	degradation under the microscope, correct? A. Correct.
2	Q. And how many nerves does it take to cause pain?	2 3	degradation under the microscope, correct? A. Correct. Q. What was the methodology that you used for
2 3 4	Q. And how many nerves does it take to cause pain?A. How many nerves? I can't quantify how many	2 3 4	degradation under the microscope, correct? A. Correct. Q. What was the methodology that you used for that?
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Q. And what is your basis for saying that

25

25 time period, yes, they may change and become hardened or

	Page 206		Page 208
1	change their physical property. That's in general, yes.	1	A. It says in that way, that's true.
2	(By Ms. Thompson)	2	Q. In the introduction, second paragraph, it
3	Q. As a pathologist, would you agree that if	3	says, There are many potential sources of chronic pain,
4	there's degradation, it would perpetuate an inflammatory	4	including stiffening of the abdominal wall due to an
5	response or exaggerate an inflammatory response?	5	intense inflammatory reaction to the mesh material. In
6	MR. SNELL: Form.	6	addition, nerve damage may result in entrapment into the
7	A. I have no evidence to say yes or no.	7	scar tissue or from the mesh fixation method utilized in
8	(By Ms. Thompson)	8	the surgical procedure. It is possible that an ongoing
9	Q. So you don't know one way or the other?	9	inflammatory response to the permanent implant is
LO	A. Correct.	10	responsible for these complications.
L1	Q. Do you feel like surface degradation and	11	Is that what it says?
L2	cracking would could harbor bacteria in the surface of	12	A. This paper says in that way.
L3	the mesh?	13	Q. And when was this published?
L4	A. I have no evidence to say.	14	A. I believe that's 2007.
L 5	Q. You have no opinion one way or the other?	15	Q. And there are pictures contained in this
L6	A. Correct.	16	article, scanning electron micrographs, of polypropylene
L 7	MS. THOMPSON: I'm going to show you	17	mesh with transverse cracks, blisters and peeling fibers.
L 7	representative articles of degradation, and I want your	18	Would you agree?
L 9	opinion on whether these articles say that degradation	19	MR. SNELL: Foundation.
20	may be possible or whether they say degradation occurs.	20	A. I'm not expert to evaluate these photographs
21	I'm going to mark this as Exhibit 18.	21	whether, you know, these are truly cracks or not cracks.
22	It's Costello's article, Materials Characterization of	22	MS. THOMPSON: I'm going to give you
		23	
23	Explanted Polypropylene Hernia Meshes.		another article. This is one by Clave that specifically
24	(Marked for Identification:	24	looks at mesh explants from transvaginal surgery.
25	Deposition Exhibit No. 18)	25	
	Page 207		Page 209
1	(By Ms. Thompson)	1	(Marked for Identification:
2	Q. And without going through the entire article,	2	Deposition Exhibit No. 19)
3	could you just read the last sentence of the abstract.	3	(By Ms. Thompson)
4	A. Yes, I did.	4	Q. And what is the title of this article?
5	Q. And what does it say?	5	A. The title says, Polypropylene mesh as a
6	A. It says the results overall supported the	6	reinforcement in pelvic surgery is not inert:
7	hypothesis that oxidation is involved with the	7	Comparative study of 100 explants.
8	degradation of polypropylene hernia mesh materials.	8	Q. And this article also includes pictures
9	Here several things are different. One is	9	demonstrating degradation on the surface of various
LO	this is hernia mesh. The other is I don't know what kind	10	different kinds of mesh, correct?
L1	of study method they are using. And then what is the	11	MR. SNELL: Foundation.
	1. 1 01. 0.001. 1. 1.1. 1.	12	(By Ms. Thompson)
L2	results they are getting. Okay? Then also whether these	122	
	results they are getting. Okay? Then also whether these findings correlate to the overall function of the mesh.	13	- · ·
L3			Q. On page 263, there are several different kinds
L3 L4	findings correlate to the overall function of the mesh. So all these questions are unanswered.	13	Q. On page 263, there are several different kinds of mesh listed, and then there are pictures, the intact
L3 L4 L5	findings correlate to the overall function of the mesh.	13 14	Q. On page 263, there are several different kinds of mesh listed, and then there are pictures, the intact column and a degraded column, correct?
13 14 15 16	findings correlate to the overall function of the mesh. So all these questions are unanswered. Therefore, I'm not able to provide my opinion regarding this article.	13 14 15 16	Q. On page 263, there are several different kinds of mesh listed, and then there are pictures, the intact column and a degraded column, correct?A. Based on that article, they list it in that
L3 L4 L5 L6	findings correlate to the overall function of the mesh. So all these questions are unanswered. Therefore, I'm not able to provide my opinion regarding this article. Q. In the abstract it also says there are several	13 14 15	 Q. On page 263, there are several different kinds of mesh listed, and then there are pictures, the intact column and a degraded column, correct? A. Based on that article, they list it in that way.
13 14 15 16 17	findings correlate to the overall function of the mesh. So all these questions are unanswered. Therefore, I'm not able to provide my opinion regarding this article. Q. In the abstract it also says there are several complications associated with the use of mesh that may be	13 14 15 16 17 18	 Q. On page 263, there are several different kinds of mesh listed, and then there are pictures, the intact column and a degraded column, correct? A. Based on that article, they list it in that way. Q. And in the last in the conclusion, the
L3 L4 L5 L6 L7 L8	findings correlate to the overall function of the mesh. So all these questions are unanswered. Therefore, I'm not able to provide my opinion regarding this article. Q. In the abstract it also says there are several complications associated with the use of mesh that may be due to the chronic inflammatory reaction to the mesh or a	13 14 15 16 17 18 19	 Q. On page 263, there are several different kinds of mesh listed, and then there are pictures, the intact column and a degraded column, correct? A. Based on that article, they list it in that way. Q. And in the last in the conclusion, the second paragraph, it says, The polypropylene implant.
13 14 15 16 17 18	findings correlate to the overall function of the mesh. So all these questions are unanswered. Therefore, I'm not able to provide my opinion regarding this article. Q. In the abstract it also says there are several complications associated with the use of mesh that may be due to the chronic inflammatory reaction to the mesh or a loss of compliance after degradation of the material.	13 14 15 16 17 18 19 20	 Q. On page 263, there are several different kinds of mesh listed, and then there are pictures, the intact column and a degraded column, correct? A. Based on that article, they list it in that way. Q. And in the last in the conclusion, the second paragraph, it says, The polypropylene implant degraded more in the presence of an acute infection or
13 14 15 16 17 18 19 20	findings correlate to the overall function of the mesh. So all these questions are unanswered. Therefore, I'm not able to provide my opinion regarding this article. Q. In the abstract it also says there are several complications associated with the use of mesh that may be due to the chronic inflammatory reaction to the mesh or a loss of compliance after degradation of the material. Is that what the abstract says?	13 14 15 16 17 18 19 20 21	Q. On page 263, there are several different kinds of mesh listed, and then there are pictures, the intact column and a degraded column, correct? A. Based on that article, they list it in that way. Q. And in the last in the conclusion, the second paragraph, it says, The polypropylene implant degraded more in the presence of an acute infection or chronic inflammation. Is that what that says?
12 13 14 15 16 17 18 19 20 21 22	findings correlate to the overall function of the mesh. So all these questions are unanswered. Therefore, I'm not able to provide my opinion regarding this article. Q. In the abstract it also says there are several complications associated with the use of mesh that may be due to the chronic inflammatory reaction to the mesh or a loss of compliance after degradation of the material. Is that what the abstract says? A. Abstract says in that way.	13 14 15 16 17 18 19 20 21 22	 Q. On page 263, there are several different kinds of mesh listed, and then there are pictures, the intact column and a degraded column, correct? A. Based on that article, they list it in that way. Q. And in the last in the conclusion, the second paragraph, it says, The polypropylene implants degraded more in the presence of an acute infection or chronic inflammation. Is that what that says? A. It say so.
13 14 15 16 17 18 19 20	findings correlate to the overall function of the mesh. So all these questions are unanswered. Therefore, I'm not able to provide my opinion regarding this article. Q. In the abstract it also says there are several complications associated with the use of mesh that may be due to the chronic inflammatory reaction to the mesh or a loss of compliance after degradation of the material. Is that what the abstract says?	13 14 15 16 17 18 19 20 21	Q. On page 263, there are several different kinds of mesh listed, and then there are pictures, the intact column and a degraded column, correct? A. Based on that article, they list it in that way. Q. And in the last in the conclusion, the second paragraph, it says, The polypropylene implanted degraded more in the presence of an acute infection of chronic inflammation. Is that what that says?

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	Page 210		Page 212
1	(By Ms. Thompson)	1	that way, because it say so.
2	Q. Another article is Exhibit 20. Could you read	2	(By Ms. Thompson)
3	me the title of that article?	3	Q. And then on the very last page, the first
4	A. Comparison of the In Vivo Behavior of	4	paragraph, it says, The phenomenon of surface oxidation
5	Polyvinylidene Fluoride and Polypropylene Suture Used in	5	is one only one of a series of steps in the
6	Vascular Surgery.	6	degradation process.
7	Q. You did better than I would have done.	7	It goes on to say that the degradation of
8	And at the bottom of that page, you'll see	8	polypropylene monofilaments involves surface
9	a number that says ETH.MESH with a number. Would you	9	embrittlement and crack formation and the loss of
10	just read that, also?	10	mechanical properties.
11	A. In abstract?	11	What does surface embrittlement mean?
12	Q. On the front page at the bottom left-hand	12	MR. SNELL: Form.
13	corner.	13	Go ahead.
14	MR. SNELL: There is no F mesh. What are	14	(By Ms. Thompson)
15	you talking about?	15	Q. To you?
16	MS. THOMPSON: I believe the one marked as	16	A. To me, that means maybe make it very easy to
17	an exhibit does. That one must have been cut off in the	17	get cracked. Is that right?
18	printer.	18	Q. So as it cracks, it becomes easier to crack?
19	THE WITNESS: I don't know if you	19	Is that what you're saying?
20	(By Ms. Thompson)	20	A. I think so. That's what that means.
21	Q. Let me see the front of your	21	Q. And what does it mean by the loss of
22	Yeah. Would you just read this right	22	mechanical properties?
23	here?	23	A. So from these wordings or phrases, basically
24	A. Oh. Yeah. ETH dot MESH dot these numbers.	24	the original physical property has been changed. That
25	Q. Could you read the numbers?	25	means loss of these physical properties.
	Page 211		Page 213
1	Page 211 A. 0584559.	1	Page 213 Q. And that would occur with a material that
1 2	_	1 2	
	A. 0584559.		Q. And that would occur with a material that
2	A. 0584559.Q. And did you already say when the article was	2	Q. And that would occur with a material that degrades, that the physical properties change, correct?
2 3	A. 0584559.Q. And did you already say when the article was published? I can't remember.	2 3	Q. And that would occur with a material that degrades, that the physical properties change, correct?A. Based on that article.
2 3 4	A. 0584559.Q. And did you already say when the article was published? I can't remember.A. That's in 1997.	2 3 4	Q. And that would occur with a material that degrades, that the physical properties change, correct?A. Based on that article.MR. SNELL: Form.
2 3 4 5	 A. 0584559. Q. And did you already say when the article was published? I can't remember. A. That's in 1997. Q. And would you agree that polypropylene mesh is 	2 3 4 5	Q. And that would occur with a material that degrades, that the physical properties change, correct? A. Based on that article. MR. SNELL: Form. MS. THOMPSON: I'm going to hand you a
2 3 4 5 6	 A. 0584559. Q. And did you already say when the article was published? I can't remember. A. That's in 1997. Q. And would you agree that polypropylene mesh is the same material as Prolene suture? Prolene mesh is 	2 3 4 5 6	Q. And that would occur with a material that degrades, that the physical properties change, correct? A. Based on that article. MR. SNELL: Form. MS. THOMPSON: I'm going to hand you a stack of articles a stack of documents that I don't
2 3 4 5 6	 A. 0584559. Q. And did you already say when the article was published? I can't remember. A. That's in 1997. Q. And would you agree that polypropylene mesh is the same material as Prolene suture? Prolene mesh is polypropylene or Prolene suture? MR. SNELL: Form. Go ahead. 	2 3 4 5 6 7	Q. And that would occur with a material that degrades, that the physical properties change, correct? A. Based on that article. MR. SNELL: Form. MS. THOMPSON: I'm going to hand you a stack of articles a stack of documents that I don't have stapled together, and I should. Does anybody have a paper clip? (By Ms. Thompson)
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Page 214 Page 216 1 me yours back. Thank you. 1 A. No. I don't want to go too far, because I 2 (Marked for Identification: already stated I'm not expert -- material expert, so this 3 Deposition Exhibit No. 21) 3 is beyond my expertise. I'm a pathologist. Right? You MR. SNELL: What number? 4 4 are asking bunch of questions regarding whether these 5 Twenty-one, you said? 5 tests or related things can prove whether there is --6 MS. THOMPSON: I think Dr. Zheng's were in this material is degradable or not. I'm not able to 6 7 a little different order from mine and maybe even from answer that, because I don't have expertise for this. 8 yours, too. We'll go ahead and find it as he does it. 8 (By Ms. Thompson) 9 9 Q. So degradation -- you would consider (By Ms. Thompson) 10 Q. So the title of this document from Ethicon in 10 degradation to be beyond your expertise? 11 1982 was Crack Depth in Explanted Prolene Polypropylene 11 A. Overall, for this situation, yes, for this 12 Sutures, correct? 12 particular situation. I don't mean for everything. 13 13 A. Correct. Q. So you don't intend to give any opinions about 14 Q. And the purpose of the study was, just reading 14 degradation in the Edwards and Huskey trials? from the first line, to determine the best estimates for 15 15 A. That's not true, because Dr. Iakovlev already 16 the penetration depth of surface cracks, correct? 16 mentioned bark-like issues. He provide the pictures 17 17 A. I believe so, yes. demonstrate the bark. And then based on my experience, I 18 Q. And would you just read to me the beginning of 18 examined those. Then also I showed -- used his same 19 the paragraph, next paragraph that starts with the 10-0 19 methods, like polarization versus nonpolarization 20 sutures? 20 conditions. Then I can't, you know, repeat his 21 A. 10-0 sutures showed surface cracks after one 21 observation, then meanwhile provide my observation to to two years implantation; in the larger sutures after 22 22 that. 23 23 seven and a half years but not at a five, although -- in If he is thinking that kind of bark-like 24 parentheses, although cracks could be induced by abrasion material represents degradation, then basically I can say on the five-year explant, as previously reported by there is no convincing evidence at all, because I can Page 215 Page 217 Dr. Borysko. simply explain those bark-like area actually is better 1 2 2 Q. What does that mean to you? interpreted as degenerated collagen bundles. 3 A. I think basically these sentence means the 3 Q. Okay. Well, let's -- that's the next thing I sutures may have showed evidence of surface cracks, 4 4 was going to do anyway. 5 basically. A. It's better that way. 6 Q. And are surface cracks an indication of Q. Okay. So we'll go to that. But anything 7 degradation? related to materials and polypropylene degradation, you 8 MR. SNELL: Form. 8 don't feel like you're qualified to testify about that? 9 9 A. I can't look at this equal, because I don't A. Correct. 10 know, number one. 10 Q. All right. Let's go to page 58, if you want 11 (By Ms. Thompson) 11 to have the -- of Dr. Iakovlev's report, if you want to 12 Q. So you don't know if degradation causes 12 have clearer pictures, but I'm also going to be handing 13 surface cracks? 13 you --14 A. I don't know that. All right? Then, also, I 14 A. 58? 15 15 think all these synthetic material, if I use a scenario Q. 58. If you would look at this picture. 16 like tires in a car, these tires, after running for a 16 MR. SNELL: Does it have a legend in the 17 while, then you have -- you have to replace. They get 17 report? 18 18 wear and tear. That's the situation. I understand MS. THOMPSON: No. I'm showing the 19 everything getting old have to be replaced. It's not 19 photograph. 20 like, you know, if you are putting outside and even you 20 MR. FABRY: TE1 is the figure. 21 are exposing to sunshine, then everything get oxidized or 21 MS. THOMPSON: And this is TE1. This is from Tonya Edwards' case. 22 degraded. 22 Q. So you're comparing this to wear and tear of 23 23 (By Ms. Thompson) 24 the polypropylene suture over time, correct? 24 Q. What do you see in this picture? MR. SNELL: Form. 25 25 A. This picture basically shows -- it's a lower

Page 218 Page 220 1 power, first of all, showing mesh fiber and mesh fiber (By Ms. Thompson) 2 with spaces as well as fibro-connective tissue. 2 Q. So the fibers of the mesh are encased in scar, 3 Q. And do you -- okay. Let's look at the 3 but when you put it in formalin, it can cause it to curl 4 fibro-connective tissue. and deform as a result of the formalin. Is that what A. Yes. 5 5 you're saying? 6 Q. And use your marker, and I assume you are 6 A. Right. 7 calling that fibrosis, correct? 7 MR. SNELL: Form. 8 A. This is very lower power. Okay? 8 A. Let's put things in a simple way. You 9 Q. So from that power you can't determine what -have fresh tissue. Okay. Is one shape, like a string. 10 A. Basically I say it's a soft tissue or 10 You remove the tape from that particular patient, it's 11 fibro-connective tissue in the lower power. Then if you 11 one piece of tissue. Then after fixation, then one piece 12 want to estimate or give the evaluation of the degree of 12 of tissue will change shape for sure. fibrosis, then you need to turn on higher power then to 13 13 (By Ms. Thompson) 14 14 identify those cellular components. Q. How do you get mesh fibers running 15 15 perpendicular to the vaginal surface, the vaginal mucosa, Q. Okay. So do you agree with Dr. Iakovlev that 16 this represents deformed curled mesh? 16 if there's no deformation? 17 17 A. No, I do not agree. I disagree. MR. SNELL: Foundation on that. 18 18 Q. And explain to me what you think it A. Because I think if you -- you have to 19 19 understand those so-called... represents. 20 20 All right. In my report, Figure 1, TVT A. This can simply represent the tangential cut 21 of the mesh fiber. 21 mesh. All right? This is a perfect condition. It's 22 Q. Explain to me how you get a tangential cut of 22 before implant. Yeah, just like that. Okay? 23 23 the mesh fiber that has some of the areas where the fiber And then you can imagine after the tape were circular and some areas of the fiber length-wise? implanted into human tissues, they already change some shape in certain degree. Do you understand that? 25 A. Because --Page 219 Page 221 MR. SNELL: Form. 1 1 (By Ms. Thompson) 2 Go ahead. 2 Q. I'm going to hand you this piece of TVT mesh. 3 3 (By Ms. Thompson) MR. SNELL: I'm going to object to this demonstrative, which is totally unscientific and 4 Q. If the mesh is not curled? 4 5 A. Okay. First of all, curled or not curled 5 certainly it hasn't been implanted. 6 is -- should be estimate or evaluated with an in vivo 6 (By Ms. Thompson) 7 condition. This is already explanted material. As you Q. I want you to take --8 can see from one of these gross pictures, that picture, 8 MR. SNELL: Hold on. It hasn't been 9 that picture is after explant from the patient body. The implanted. And it certainly has no relevance or bearing 10 tissue already being fixed into the formalin for a long 10 to Mrs. Edwards or Mrs. Huskey, for that matter. There 11 time. 11 is no reliable scientific indicia that this is 12 12 Then this fixation will create lots of representative of these particular cases for whatever 13 artifact, because the fixation process will get rid of 13 this demonstrative is, and I'm actually going to object. 14 the water, number one; number two, will make the protein 14 (By Ms. Thompson) 15 15 cross linking to each other, therefore will change the Q. Take the scissors, Dr. Zheng, and cut a 16 original position of the mesh. Therefore, you see 16 portion of the mesh. And let's not use this part. Let's 17 17 these -- some of these tissues is not straight. They use this fresh part that still has the sheath on it. Cut 18 18 curve. a piece --19 19 Q. So you're saying that formalin can actually MR. SNELL: Hold on. No, he's not cutting cause mesh that's encased in scar to curl after it's 20 20 mesh. He's not here to perform science experiments for 21 removed from the body? Is that what you're saying? 21 you. He's here to answer your questions. So you can 22 22 MR. SNELL: Form. take that back. That's not going to happen in my A. Yes. The fixation process will change, that's 23 23 deposition. 24 number one, yes, for sure. 24 (By Ms. Thompson) 25 25 Q. All right. I'm going to cut the mesh and hand

			g, M.B.
	Page 222		Page 224
1	you a piece of mesh. It's covered with a plastic sheath	1	feel the mesh that you're testifying about today?
2	that I'm going to remove.	2	A. Before surgery, I don't do that, because when
3	And as a pathologist, I want you just to	3	I examine the specimen, that's explanted material.
4	hold that piece of mesh and tell me what the edges feel	4	Q. Okay. Let's move to
5	like.	5	A. But I did not answer your question regarding
6	A. The edge is not smooth.	6	the perpendicular situation, because we were interrupted
7	Q. Is it sharp?	7	by other questions.
8	MR. SNELL: Form.	8	Q. Okay. How do you explain the perpendicular
9	A. I don't think it can be considered as sharp.	9	orientation of mesh?
10	(By Ms. Thompson)	10	A. So perpendicular interpretation is you can see
11	Q. Is it soft?	11	this picture, see these knitted area, original, just like
12	A. Overall the mesh is soft.	12	you have. This is a blowup so you can see better. Then
13	Q. The edges, are the edges soft?	13	you have these knots area. These knotted area, if you
14	MR. SNELL: Form.	14	cut in the tangential or perpendicular way, then you see
15	A. You have some kind of pointings.	15	these different shape of the mesh fibers, and they cross
16	But I think your original question was	16	link to each other.
17	asking what's my interpretation why some of these mesh	17	Q. And my question is, how can you cut a mesh
18	perpendicular to the others, right?	18	that's embedded in formalin, encased in fibrosis, in a
19	(By Ms. Thompson)	19	way to get some of the fibers cross sectioned and some of
20	Q. Okay. That's not a question on the table.	20	the fibers length-wise and some of the fibers in every
21	Go ahead and pull that mesh just a little	21	other which way?
22	bit yourself.	22	MR. SNELL: Hold on. Form. I'm going to
23	MR. SNELL: No, no, no. You're not doing	23	object on foundation, too, because we don't know what
24	that.	24	your person did with it.
25	This is not an experiment. It's a	25	
	Page 223		Page 225
	1 450 223		
1	deposition. You can ask him questions.	1	_
1 2	deposition. You can ask him questions. MS. THOMPSON: I can hand him a piece of	1 2	(By Ms. Thompson)
2	MS. THOMPSON: I can hand him a piece of	2	(By Ms. Thompson) Q. Is it possible to deform a mesh when you put
	MS. THOMPSON: I can hand him a piece of TVT mesh and	2 3	(By Ms. Thompson) Q. Is it possible to deform a mesh when you put it into the paraffin processor?
2 3 4	MS. THOMPSON: I can hand him a piece of TVT mesh and MR. SNELL: No. He is not going to be	2	(By Ms. Thompson) Q. Is it possible to deform a mesh when you put it into the paraffin processor? A. After fixation process
2 3 4 5	MS. THOMPSON: I can hand him a piece of TVT mesh and MR. SNELL: No. He is not going to be stretching the mesh.	2 3 4 5	(By Ms. Thompson) Q. Is it possible to deform a mesh when you put it into the paraffin processor? A. After fixation process Q. That's not my question. Is it possible to
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	Page 226		Page 228
1	(Marked for Identification:	1	example of the mesh associated with the mucosa. Because
2	Deposition Exhibit No. 23)	2	when the surgeon cut the mesh, then one end or one part
3	(By Ms. Thompson)	3	was part of the mucosa is very normal procedure. Okay?
4	Q. And this is also a slide from Tonya Edwards'	4	You have to cut it open, then remove, then some of the
5	case, correct?	5	end will attach to the one end will attach to the
6	A. Correct.	6	mucosa. That's very reasonable.
7	Q. And this is actually what we were discussing	7	(By Ms. Thompson)
8	about the mesh being perpendicular to the surface,	8	Q. Isn't this mesh encased in fibrosis?
9	correct?	9	A. As I said, the degree of fibrosis is mild.
10	A. But based on what he says, correct.	10	Q. But this isn't free-floating mesh. You would
11	Q. And is it your opinion that this orientation	11	agree with that, wouldn't you?
12	of the mesh to the vaginal mucosa, in other words,	12	A. It's not free floating. It's this mesh
13	perpendicular to the vaginal mucosa, is caused by the	13	perfectly has very good tissue integration.
14	fixation process?	14	Q. So you're saying that this orientation to the
15	A. I think he presented this picture in a totally	15	mucosa occurred after explant?
16	wrong concept, okay, because the surgeon removed the	16	A. No. That's in vivo condition. That's fine.
17	mesh. First of all, in vivo condition the surgeon	17	But just because of particular cut, then he said, oh,
18	removed the mesh. He never describe any like migration	18	because the location is perpendicular to the mucosa, then
19	or become mesh become perpendicular.	19	the mesh is perpendicular. This is very ridiculous.
20	The mesh, this gross picture, this mesh is	20	Q. This portion of the mesh
21	like five to six centimeter in size. If it's	21	MR. SNELL: Don't interrupt him. He was
22	perpendicular, that means the mesh is going to penetrate	22	about to tell you why it's ridiculous.
23	from anterior vaginal wall to the posterior wall or to	23	A. You can ask other pathologists. People will
24	the skin. That's six centimeter size perpendicular.	24	laugh. What are you talking about this is perpendicular?
25	How that can happen? Right? Do you	25	So that's very simple.
	now that can happen. Right. Do you		so that's very simple.
	Page 227		Page 229
1	Page 227 understand what I'm talking?	1	Page 229 MS. THOMPSON: All right. We'll see on
1 2	_	1 2	
	understand what I'm talking?		MS. THOMPSON: All right. We'll see on
2	understand what I'm talking? Q. I'm can you look at that mesh and see how	2	MS. THOMPSON: All right. We'll see on that.
2 3	understand what I'm talking? Q. I'm can you look at that mesh and see how it's curled? And if you have a mesh that's curled under	2 3	MS. THOMPSON: All right. We'll see on that. I can skip the one on striated muscle.
2 3 4	understand what I'm talking? Q. I'm can you look at that mesh and see how it's curled? And if you have a mesh that's curled under a mucosa, that's going to be perpendicular, correct?	2 3 4	MS. THOMPSON: All right. We'll see on that. I can skip the one on striated muscle. Turn to page 63, and I'll mark that.
2 3 4 5	understand what I'm talking? Q. I'm can you look at that mesh and see how it's curled? And if you have a mesh that's curled under a mucosa, that's going to be perpendicular, correct? MR. SNELL: Foundation, form.	2 3 4 5	MS. THOMPSON: All right. We'll see on that. I can skip the one on striated muscle. Turn to page 63, and I'll mark that. (Marked for Identification:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	understand what I'm talking? Q. I'm can you look at that mesh and see how it's curled? And if you have a mesh that's curled under a mucosa, that's going to be perpendicular, correct? MR. SNELL: Foundation, form. A. No. He said what he said perpendicular is this like mucosa, then this mesh. (By Ms. Thompson) Q. No. What he's saying is this is the mucosa. The mesh is curled. So if you section it in this area, you're having curled mesh perpendicular to the mucosa. I don't think anybody says the mesh is coming in perpendicular. MR. SNELL: Hold on. Form and foundation on your interpretation of what Dr. Iakovlev said and what he's done with this mesh. (By Ms. Thompson) Q. Okay. What is your explanation for the appearance of perpendicular mesh in this? I don't want what Dr. Iakovlev says. I want your interpretation of why the mesh is perpendicular in this photo. MR. SNELL: Foundation. Go ahead.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. THOMPSON: All right. We'll see on that. I can skip the one on striated muscle. Turn to page 63, and I'll mark that. (Marked for Identification: Deposition Exhibit No. 24) (By Ms. Thompson) Q. Do you agree with Dr. Iakovlev this is TE5, Tonya Edwards' case that these are examples of thrombosed capillaries? A. I think MR. SNELL: Hold on before you answer that. Foundation. Go ahead. A. Okay. From TE5, Figure TE5, in the right panel, that vessel from this picture can be considered as thrombosed. But the other one in the left panel also can be interpreted as congested, because as we discussed in other picture, they look very much similar. Okay? So from those pictures I can say. (By Ms. Thompson)

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	Page 230		Page 232
1	A. Correct. Based on these pictures.	1	this could be nerve. However, in the same
2	Q. And is that edematous tissue surrounding those	2	(By Ms. Thompson)
3	thrombosed capillaries?	3	Q. I don't want I want it circled. Circle
4	A. Can be either edema or loose connective	4	that structure we were talking about and tell me is that
5	tissue, as I told you. For instance, in the left in	5	a nerve or is that not a nerve.
6	the right upper corner of the right panel, okay, shows	6	A. Could be nerve.
7	these lucency of the collagen bundles there and some	7	Q. So the best you can do is could be nerve?
8	cells. Therefore, this can be either loose connective	8	A. Yes.
9	tissue or you can say edema. But it's very blowup	9	Q. Okay. Put could be nerve but not necessarily.
10	picture. You don't know overall situation.	10	A. That's right.
11	(Marked for Identification:	11	THE COURT REPORTER: Is that Dr.
12	Deposition Exhibit No. 25)	12	Iakovlev's report he's writing on?
13	(By Ms. Thompson)	13	MR. SNELL: No. That's Andy's report.
14	Q. Let's go to page 65. And I'm handing you	14	THE COURT REPORTER: Yeah. But it's not
15	Exhibit 25, which is the left-hand side of this.	15	marked.
16	First of all, would you identify the S100	16	MS. THOMPSON: Oh. We need to do it on
17	stained structures as nerves in this picture?	17	this. Circle this and put the same thing. It's getting
18	A. I see some brown stainings based on this	18	late.
19	picture.	19	(Marked for Identification:
20	Q. I didn't ask that. I'm asking are those	20	Deposition Exhibit No. 26)
21	nerves?	21	(By Ms. Thompson)
22	A. I'm not sure they are nerve or not, because	22	Q. Okay. I'm going to hand you Exhibit 26, which
23	based on these pictures, this particular picture.	23	is the lower panel on page 67. And how would you
24	Q. So you cannot tell whether those are nerves or	24	describe that?
25	not?	25	MR. SNELL: Do you have a copy?
	not.		Min. St. 2022. Bo you have a copy.
	Page 231		Page 233
1	Page 231 A. Again, if I want to identify nerve, then I	1	Page 233 MS. THOMPSON: I'm sorry.
1 2	_	1 2	_
	A. Again, if I want to identify nerve, then I		MS. THOMPSON: I'm sorry. A. That's S100 staining. (By Ms. Thompson)
2	A. Again, if I want to identify nerve, then I want to see under H&E, under higher power of the	2	MS. THOMPSON: I'm sorry. A. That's S100 staining.
2 3	A. Again, if I want to identify nerve, then I want to see under H&E, under higher power of the microscope.	2 3	MS. THOMPSON: I'm sorry. A. That's S100 staining. (By Ms. Thompson) Q. And what do you see? A. I see some brown stained area and some
2 3 4	A. Again, if I want to identify nerve, then I want to see under H&E, under higher power of the microscope. Q. Did you look at this slide?	2 3 4	MS. THOMPSON: I'm sorry. A. That's S100 staining. (By Ms. Thompson) Q. And what do you see?
2 3 4 5	 A. Again, if I want to identify nerve, then I want to see under H&E, under higher power of the microscope. Q. Did you look at this slide? A. I looked at slides. 	2 3 4 5	MS. THOMPSON: I'm sorry. A. That's S100 staining. (By Ms. Thompson) Q. And what do you see? A. I see some brown stained area and some
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	Page 234		Page 236
1	injured. Then the peripheral part or distal part of that	1	use all these single identification or pictures then to
2	injured neuron in these nerve may start to have	2	generalize his conclusion.
3	degenerative changes. Okay?	3	Q. Are you saying that mesh cannot cause nerves
4	Then they are they will present usually	4	to be damaged or degenerate?
5	it's not a single focus. You will see many similar	5	A. At least I don't see such evidence.
6	pictures will be identified. All right? But for this	6	Q. Do you not see such evidence in any of the
7	instance, I have only see single microscopic focus from	7	meshes you've examined, or do you not see the evidence in
8	what Dr. Iakovlev stained. More than hundred of these	8	Ms. Edwards?
9	brown stained area or he called nerve. Okay?	9	A. I see not only Edwards. In all the
10	Q. So your opinion is this could be a nerve, but	10	specimens I have examined in the past three years.
11	it's not a degenerated nerve?	11	Q. So would you also say if your opinion is
12	A. No. What I said, could be nerve in the	12	that that's not degenerated, put that on there, also.
13	outside area. In the center, what he point out in the	13	A. What I said here, I say this picture does not
14	center nonstained area is degeneration. Then he said	14	represent central nerve degradation.
15	because of no staining, then that's degeneration. That's	15	(Marked for Identification:
16	his conclusion, and that's the reason for his conclusion.	16	Deposition Exhibit No. 27)
17	But I disagree for that.	17	(By Ms. Thompson)
18	Q. So it's not degenerated?	18	Q. This is page 68. I've marked this as
19	A. I don't think this represent degenerated	19	Exhibit 27. And I want for you to identify for me what
20	nerve, number one.	20	is this blue area here?
21	Q. Are you saying	21	MR. SNELL: Can I have a copy, please?
22	A. Number two is these single clusters it's also	22	Which blue area are you talking about?
23	not necessary saying this is a single nerve. You	23	THE WITNESS: These blue granules.
24	understand?	24	A. Based on my understanding by reading through
25	Q. How many slides did you stain?	25	his reports, he
23	Q. How many sinces and you stain:	23	ins reports, ne
	Page 235		Page 237
1	Page 235 A. For me? Stained for neurofilaments?	1	Page 237 (By Ms. Thompson)
1 2	_	1 2	
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2	A. For me? Stained for neurofilaments?Q. How many slides?	2	(By Ms. Thompson) Q. I'm just asking you, what is that? If you
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	Page 238		Page 240
1	And then what is here?	1	even don't recognize this is your own face. The same
2	A. That is part of the connective tissue or	2	situation happens. All right?
3	incorporated tissue, tissue integrated into the	3	Q. Did you look at this area of Tonya Edwards'
4	adjacent to the mesh.	4	slide yourself?
5	Q. So let's go ahead and mark with the Sharpie	5	A. Yes, I looked.
6	the blue granule area as that can just be TVT-O or PP,	6	Q. And did you put it on a lower power to try to
7	whatever you want to say that is.	7	appreciate the appearance?
8	A. You mean this?	8	A. I even created pictures for that.
9	Q. Label that.	9	Q. So back to your opinion that this is
10	A. Just say mesh fiber.	10	degenerated collagen.
11	Q. Okay. And then label the connective tissue or	11	MR. SNELL: Do you want him to show you
12	however you want to label the other portion.	12	the pictures?
13	And then I want you to tell me not what	13	MS. THOMPSON: No. I didn't ask for those
14	Dr. Iakovlev thinks this is, but what you think this rim	14	pictures.
15	is there.	15	MR. SNELL: All right.
16	A. When you when a picture blow into such high	16	(By Ms. Thompson)
17	conditions, it's very difficult to say what is this.	17	Q. Then so, in your opinion, that represents
18	First of all, it shows different color. Like, for	18	degenerated collagen, correct? And the blue granules
19	instance, like in the relatively lower power in the same	19	that are in that rim that you're representing in your
20	picture in the upper panel, it shows purple blue in outer	20	opinion is degenerated collagen are a function of levels
21	layer, and then inner layer represent mesh fiber.	21	of sectioning, correct, superimposed?
22	Q. Okay. I don't believe you answered my	22	A. Could be, yes.
23	question. What do you think that rim represents? What	23	Q. And you had hundreds of sections that you
24	is it composed of?	24	could do off the block that you had to satisfy yourself
25		25	
25	A. That could be degenerated collagen.	23	as to whether that's really what they represented or not,
	Page 239		Page 241
1	Page 239 Q. Okay. What else could it be?	1	Page 241 correct?
1 2	_	1 2	_
	Q. Okay. What else could it be?		correct?
2	Q. Okay. What else could it be?A. I think my answer probably that will be	2	correct? MR. SNELL: Foundation.
2 3	Q. Okay. What else could it be?A. I think my answer probably that will be just a reasonable answer.	2 3	correct? MR. SNELL: Foundation. A. As I said, it's better for me to examine the
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		Page 242		Page 244
	1	do, because the collagen bundles or extracellular matrix	1	MR. SNELL: Form.
	2	have to be densely adhesed to the mesh fibers then to	2	A. I'm not aware of any situation like this.
	3	support or to secure the mesh is within the tissue.	3	(By Ms. Thompson)
	4	Q. Okay. Let's go back to the blue granules.	4	Q. Okay. And your contention is that the
	5	A. Okay.	5	appearance of the blue granules in this rim that you
	6	Q. You would agree with me that blue granules	6	believe is collagen is a function of the sectioning
	7	that are put in TVT mesh for coloration you agree with	7	technique, right? I think that's what you said.
	8	me that TVT mesh contains blue granules that are placed	8	A. It's they may represent in a different
	9	for coloration, correct?	9	plane, that's true.
-	10	A. TVT mesh fiber, one monofilament is used blue	10	Q. A different plane?
-	11	color, that's true.	11	A. A different plane. It's not like section
-	12	Q. Okay. And that is done with blue granules in	12	because of section-induced artifact.
-	13	the mesh?	13	Q. Not artifact. They're cut in a different
-	14	A. Then if you magnify, everything become	14	plane?
-	15	granule. That's true.	15	A. Right.
-	16	Q. All right. The mesh somehow TVT mesh is	16	Q. So you have granules superimposed on top of
-	17	colored blue. Okay. That's just leave it at that.	17	this rim because it's impossible all the time to get it
-	18	Right, it's blue?	18	exactly straight. Is that what you're saying?
-	19	A. Yes.	19	A. Correct. Okay. And then
2	20	Q. Okay. We know that because I tried to bring	20	Q. And you had the opportunity to look at
2	21	my mesh out earlier.	21	hundreds of more sections to see if these granules are
2	22	A. Right.	22	actually in what you think is degraded, degenerated
2	23	Q. And Mr. Snell didn't let me go very far with	23	collagen or whether they're not, and you didn't do that.
2	24	it.	24	And I'm just trying to understand why.
2	25	So TVT mesh is blue. Is there any	25	So why did you if you could prove that,
F		Page 243		Page 245
	1	situation that you can think of that blue granules would	1	your theory that this was done by because the blue
	2	appear in collagen?	2	granules are a different plane, why didn't you do that?
	3	Any situation, not we're not even	3	Why didn't you take more sections?
	4	talking about Tonya Edwards. Some situation where blue	4	MR. SNELL: Form, foundation. He's
	5	granules, not a blue-colored cell, but blue granules,	5	already answered this three times.
	6	synthetic material, would appear in collagen?	6	Go ahead.
	7	MR. SNELL: You mean beyond what he has	7	A. Because there is no reason.
	8	already told you?	8	(By Ms. Thompson)
	9	A. As I said, I don't believe	9	Q. Because they're irrelevant? Is that
-	10	(By Ms. Thompson)	10	A. For me, this is totally irrelevant.
-	11	Q. That's not a sectioning. It's actually in the	11	Q. Okay. All right.
-	12	collagen.	12	A. Okay?
=	13	A. I don't believe	13	Q. And you weren't curious as to what you would
-	14	MR. SNELL: Not in a photograph? In the	14	see if you did more sections?
-	15	collagen?	15	A. Because I have so many such bark-like area,
-	16	MS. THOMPSON: In the collagen.	16	why I need to do more? Therefore, I take many
-	17	(By Ms. Thompson)	17	sections many pictures to show these material are, you
:	18	Q. Is there a situation where blue granules could	18	know, present in many places.
:	19	occur in collagen?	19	(Marked for Identification:
2	20	A. Yeah. If you have the sectioning. For	20	Deposition Exhibit No. 28)
2	21	instance	21	(By Ms. Thompson)
2	22	MR. SNELL: Form.	22	Q. Okay. Let's just take one of yours and mark
2	23	(By Ms. Thompson)	23	it. And I really don't need you to do anything with this
2	24	Q. Not sectioning. Is there a situation in the	24	other than to have to show that you have a bark-like
2	25	human body where blue granules could appear in collagen?	25	appearance in each of those areas where the polypropylene

	WCIIXIII ZII		
	Page 246		Page 248
1	fiber was, correct?	1	of fibrosis is from this magnification?
2	A. Right. I labeled them very clearly. I say,	2	A. Right. From this particular picture it's not
3	The "bark" like areas are squared under the regular	3	reasonable to say so certain. People will laugh. In the
4	microscopy.	4	professional level, we have to follow our professional
5	MR. SNELL: For the record, it's, quote,	5	practice.
6	bark, close quote.	6	Q. But I think you can say that that is not loose
7	THE WITNESS: Right. That's his word.	7	connective tissue, correct?
8	Actually the bark so-called bark, this is the first	8	A. Yeah. It's integrated tissue.
9	time I heard bark, which has never been, you know, used	9	
	•		Q. Okay. Well, that wasn't my question. You
10	in the pathology book.	10	can't say that that's not loose connective tissue,
11	MS. THOMPSON: I do not think Dr. Iakovlev	11	correct?
12	would have any problem with putting that in quotations.	12	MR. SNELL: Form.
13	(Marked for Identification:	13	A. It's not loose connective tissue.
14	Deposition Exhibit No. 29)	14	(By Ms. Thompson)
15	(By Ms. Thompson)	15	Q. And then I want you to tell me what this area
16	Q. I've just marked Exhibit 29, which is on page	16	that you drew the line to, what that represents?
17	43. And I believe this is an area similar to what we	17	And go ahead and read what you wrote.
18	were looking at before, correct?	18	A. I wrote, said, Most likely this represent
19	A. Correct.	19	collagen bundles densely adhesed to the mesh fiber.
20	Q. And on the left-hand side, let's do the same	20	Q. Okay. Now, that collagen doesn't look like
21	thing. Will you write on that what the blue-colored area	21	the collagen adjacent to it, does it?
22	represents.	22	A. Correct. Because it's densely adhesed to the
23	Mesh fiber, correct?	23	mesh fiber. Therefore, it has less chance to be to
24	A. Yes.	24	get or to obtain any nutrition from blood supply.
25	Q. And what about the pink-colored area in the	25	Q. So this is degenerated collagen?
	Page 247		Page 249
		1	
1	no, no. The other one. The pink the bright the	1	A. Most likely these densely adhesed to those
2	no, no. The other one. The pink the bright the pink at the bottom, what is that?	2	A. Most likely these densely adhesed to those area represent degenerated collagen.
2 3	no, no. The other one. The pink the bright the pink at the bottom, what is that? A. Integrated tissue.	2	A. Most likely these densely adhesed to those area represent degenerated collagen.Q. And there's nothing else that you would
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	WEIIXIII ZII		
	Page 250		Page 252
1	(By Ms. Thompson)	1	MS. THOMPSON: I'm just going to mark it
2	Q. Okay. And would you say the same with this	2	as an exhibit.
3	next one that I'll mark as Exhibit 30?	3	THE WITNESS: Yeah. Sure.
4	A. That one even can you tell me how much	4	(Marked for Identification:
5	magnification that is? This one magnified to?	5	Deposition Exhibit No. 31)
6	Q. So you disagree that those are blue granules	6	THE WITNESS: Let me explain to you.
7	in your degenerated collagen?	7	(By Ms. Thompson)
8	MR. SNELL: Foundation.	8	Q. I want you to mark on it with your pen where
9	(By Ms. Thompson)	9	is the polarized collagen?
10	Q. In your opinion, that's not even possible?	10	A. Hold on. I have to explain one by one.
11	A. Right. Because you see if you see a few	11	Q. I am just asking for one thing, and that's
12	like blue granules, what are they? All right?	12	mark the polarized collagen.
13	Q. That's my question.	13	A. I know, but you have to go step by step.
14	A. Right. What are they? Then you can ask him.	14	Q. Well, I don't really have time, and I get to
15	He said these are, you know, degraded mesh. Then I say	15	choose what I want, unfortunately, what I want to talk
16	this is not. Okay. So who is right? Who is wrong?	16	about. And I want you to mark the polarized collagen,
17	Nobody knows.	17	please.
18	Q. Does collagen	18	A. Then I have another picture. That's why you
19	A. Because when we are using common sense and,	19	need
20	plus, this is not general surgical pathology practice.	20	Q. Is there any collagen that's polarizing on
21	Right?	21	this picture?
22	Q. Does collagen polarize bright purple like is	22	A. There is no, no polarized collagen is not
23	in that picture?	23	polarized, collagen before polarization. After
24	A. Collagen can be yes, can be like similar to	24	polarization they show the same color. Okay? Number
25	the purple color.	25	one. Because this is a routine microscope before and
	Dana 251		Da 252
1	Page 251	1	Page 253
1	Q. Do you see collagen that polarizes like this?	1	after polarization to compare.
2	Q. Do you see collagen that polarizes like this?A. I did not magnify to this level, but I do have	2	after polarization to compare. Q. Okay. I would like to see the picture where
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	Page 254		Page 256
1	Circle what's the same here and what's the same there.	1	then the color should be similarly to the nondegraded
2	A. I already	2	area in certain part. Particularly under polarized
3	MR. SNELL: It's already on there.	3	conditions you can see better. However, with my own
4	There's a whole legend on there.	4	polarized observation, I do not see that, number one.
5	MS. THOMPSON: I don't care about his	5	Number two, if it's truly representing
6	legend. I want him to write down with a Sharpie that	6	degraded outer layer of the mesh fiber, then we should
7	this is the same as what area there that you're saying it	7	see usually we should see like irregular borders
8	is the same as.	8	between the degraded area and nondegraded area.
9	MR. SNELL: Just put "same" on there,	9	However, in majority of the situation, we
10	because it says it already.	10	see clear-cut kind of bark layer, very clear. All right?
11	(By Ms. Thompson)	11	But except you magnify to more than you know, very
12	Q. No. I want you to circle the part that's the	12	high magnification, then you see sort of granular
13	same, please.	13	appearance. Okay?
14	A. There's so many I have those. My God.	14	Q. I will represent
15	Q. Okay. Well, we're talking about a continuous	15	A. So those are the evidence for me. Plus, those
16	rim, and you're picking out little isolated blue areas.	16	similar polarized condition versus nonpolarized
17	Is that what you're saying is the same?	17	condition, they more likely represent to those extra
18	A. Yeah.	18	cellular matrix such as collagen. Because it's densely
19	Q. Okay.	19	adhesed to the mesh fiber, then they change their
20	A. Do you want to mark your exhibits before we go	20	original property. Therefore, it's reasonable to say
21	further and we forget?	21	it's more likely those area represent degenerated
22	(Marked for Identification:	22	collagen.
23	Deposition Exhibit No. 32)	23	Q. But it's possible that it's degraded
24	(Marked for Identification:	24	polypropylene?
25	Deposition Exhibit No. 33)	25	MR. SNELL: Form.
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		_	
	Page 255		Page 257
1	(By Ms. Thompson)	1	A. That's what I already said. It's more likely.
1 2	(By Ms. Thompson) Q. And would you also write on this one, No	1 2	A. That's what I already said. It's more likely. I did not say one hundred percent.
	(By Ms. Thompson) Q. And would you also write on this one, No polarized collagen.		A. That's what I already said. It's more likely. I did not say one hundred percent. (By Ms. Thompson)
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2 3	(By Ms. Thompson) Q. And would you also write on this one, No polarized collagen. A. That's within my legend. Q. I just want you to write it, please.	2 3	A. That's what I already said. It's more likely. I did not say one hundred percent. (By Ms. Thompson)
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	Page 258		Page 260
1	(By Ms. Thompson)	1	MS. THOMPSON: If you'll turn to page 40.
2	Q. I've marked as Exhibit 35 a scanning EM of	2	THE COURT REPORTER: Are you marking them
3	polypropylene filament. What do you see in this picture?	3	out of sequence now?
4	This is on it's a much better picture	4	MS. THOMPSON: Oh, was that not the right
5	if you look at Dr. Iakovlev's report on page 45.	5	number?
6	A. That's a transmission electron microscopy.	6	THE COURT REPORTER: Well, you marked a
7	Q. That's right. It's a TEM. If I said	7	couple. Are you not going to use those? I'll give you
8	scanning, I meant to say TEM.	8	stickers so they can be
9	And do you disagree that this is	9	MS. THOMPSON: I just this is 38.
10	indicative of surface changes on the polypropylene?	10	THE COURT REPORTER: You've got 36 and 37
11	MR. SNELL: I want to put an objection on	11	that you're not going to use. I'll give you it's
12	the record. This Figure 25, the legends aren't included	12	going to look funny if
13	on any of these. This states, Specimen of an explanted	13	MS. THOMPSON: Oh, you're right. Give me
14	transvaginal sling of another brand, et cetera. So I	14	another one. I decided not to use those.
15	want to make sure the record is clear this isn't Edwards.	15	THE COURT REPORTER: Okay. So just
16	A. In addition to that, I can assure you I'm not	16	scribble those off so you don't think they're the
17	the expert for electron microscope to interpret things.	17	originals.
18	Therefore, I don't have any opinion how to comment on	18	MS. THOMPSON: Yeah, I just need a new
19	this.	19	one. So this will be 36. Thanks for bringing that to
20	(By Ms. Thompson)	20	my attention.
21	Q. Okay. So you will not be testifying at trial	21	(Marked for Identification:
			`
22	as to the findings on any transmission or scanning	22	Deposition Exhibit No. 36)
23	electron microscope?	23	(By Ms. Thompson)
24	A. Correct. Because that's not in my training	24	Q. What does it mean when you have well, what
25	expertise.	25	do you see in these photomicrographs, as a pathologist?
	Page 259		Page 261
1	Page 259 O. If you	1	Page 261 A. For Figure 22?
1 2	Q. If you		A. For Figure 22?
2	Q. If youA. But I can make a comment about this, because	1 2 3	A. For Figure 22?Q. Yeah. Let's start with Figure 22.
2 3	Q. If you A. But I can make a comment about this, because when all these small things magnify to very high levels,	2 3	A. For Figure 22?Q. Yeah. Let's start with Figure 22.A. Figure 22 he stated as immunoglobulin
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	Page 262		Page 264
1	Q. And that means that they are actively working,	1	A. I feel originally I try to repeat his \$100,
2	phagocytizing or	2	for instance, number one. Number two, like inflammatory
3	A. Phagocytizing.	3	cells, CD45 staining. Then after when I examined those
4	MR. SNELL: Form.	4	neurofilament staining sections, I noticed these sections
5	A. It's not necessary saying that, because, you	5	already fragmented. So I'm afraid if I keep cutting, one
6	know, that basically indicating the presence of	6	is may exhaust the material. There is a risk there. And
7	inflammatory cells or macrophages or like foreign body	7	two is all these fragmented tissue may not give me any
8	giant cells.	8	good results anyway. So, therefore, I don't need to do
9	(By Ms. Thompson)	9	that. And, plus, he has provided lots of slides already.
10	Q. And would you agree that the bark does not	10	Q. Okay. So you had what you needed, in your
11	pick up the myeloperoxidase stain?	11	opinion?
12	A. From this area, what he showed, the area	12	A. I think my additional concern is my comments
13	actually in the up little bit of corner. You see the	13	should be the same picture or same slides he is using.
14	corner in the middle of this area? You have some	14	That will be better, because we are talking the same
15	staining there, too. See that? Can you see that	15	thing. Otherwise another argument coming. Says, okay,
16	clearly?	16	we are talking about different level, different things.
17	Q. Where the bark is?	17	Q. So even though you contradicted him and could
18	A. Yeah, where he called the bark. Then you see	18	have proven your position with more sections, you chose
19	the stained area.	19	not to do that; is that correct?
20	Q. You need to write on this.	20	MR. SNELL: Form.
21		21	Go ahead.
	And collagen stains positive for	22	
22	myeloperoxidase; is that right?		A. I think it's better to just use the
23	A. No. Pure collagen will not.	23	information he used. Then we're talking about the same
24	Q. The cells?	24	thing.
25	A. The cells, part of the cellular component may	25	
	Page 263		Page 265
1	6	1	Page 265 (By Ms. Thompson)
1 2	Page 263 stain, depending on if they have that particular antigen there.	1 2	(By Ms. Thompson)
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	Page 266		Page 268
1	don't know what your expert has done with it, and that's	1	entrapment of normal nerves, in your opinion?
2	your words.	2	A. What do you mean? No evidence of nerve
3	A. Okay. So they're not straight	3	entrapment?
4	MS. THOMPSON: I asked what caused it. He	4	Q. Replace the word abnormal with normal, and is
5	can say my expert	5	that still would that still be your opinion?
6	(By Ms. Thompson)	6	MR. SNELL: I think that's a typo,
7	Q. What caused the apparent distortion in that	7	Counsel.
8	photo?	8	A. Basically there's no evidence of nerve
9	MR. SNELL: Same objection.	9	entrapment. All right? No matter what, abnormal. Then
10	A. First of all, the specimen looks blond color,	10	also I should say another sentence, No evidence of
11	right? Blond color means the specimen has been fixed,	11	abnormal nerve findings.
12	fixed in formalin. All right? Formalin fixation will	12	(By Ms. Thompson)
13	make the tissue from whitish or like bloody-looking	13	Q. Okay. So there's no evidence of nerve
14	specimens turn everything to blond.	14	entrapment?
15	(By Ms. Thompson)	15	A. Correct.
16	Q. Okay. I'm not asking about the color. I'm	16	Q. Abnormal or normal nerves?
17	asking about the distortion.	17	A. Correct.
18	A. Right. Therefore, the fixation process,	18	
			MS. THOMPSON: I think it may be a typo,
19	formalin as we said, have two main role. One is remove	19	also.
20	the water component. After the water component removed,	20	MR. SNELL: Yeah.
21	it will contract, tissue will contract. Okay? Number	21	(By Ms. Thompson)
22	one.	22	Q. Number six, the degree of chronic inflammation
23	Number two is protein cross linking. I	23	and foreign body giant cells found in this specimen is
24	think Dr. Iakovlev also mentioned that. These cross	24	within normal limits.
25	linking then also will change the shape of the specimen.	25	Are chronic inflammation and foreign body
	D 267		
	Page 26/		Page 269
1	Page 267 One is make them harder. The other is make curve.	1	Page 269
1 2	One is make them harder. The other is make curve.	1 2	giant cells normal in the vagina?
2	One is make them harder. The other is make curve. That's for sure.	2	giant cells normal in the vagina? A. When any human tissues containing foreign
2 3	One is make them harder. The other is make curve. That's for sure. Q. Okay. Number two, the specimen shows good	2	giant cells normal in the vagina? A. When any human tissues containing foreign device, then we are able to see certain amount of chronic
2 3 4	One is make them harder. The other is make curve. That's for sure. Q. Okay. Number two, the specimen shows good tissue integration with mild degree of fibrosis. And	2 3 4	giant cells normal in the vagina? A. When any human tissues containing foreign device, then we are able to see certain amount of chronic inflammation and foreign body giant cells.
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	Page 270		Page 272
1	discontinuation of the squamous mucosa in focal area, it	1	Smith. Hopefully they're in order over there for you.
2	may represent erosion or exposure, right? It's not	2	A. Yes.
3	confirmed yet.	3	Q. This was a paper plaintiffs' counsel asked you
4	(By Ms. Thompson)	4	about specifically where the specimen requisition listed
5	Q. Okay. So you would still	5	clinical history as pain, 28.4 percent. Do you recall
6	A. Therefore plus, there is no other condition	6	that?
7	such as infection or abscess formation. Then those are	7	A. Yes, I do.
8	the clear-cut evidence can cause pain. Okay? I don't	8	Q. Does this paper say that pain was actually
9	have those evidence at all.	9	caused by the mesh?
10	Q. Are you saying that you have to have infection	10	A. No. Usually those study listing the reasons
11	or an abscess to have mesh-related dyspareunia and pain?	11	of pain or other things based on the requisition sheet,
12	A. Yes. If I see those evidence, yes, then that	12	and these sheets were recorded based on the patient's
13	support pain.	13	chief compliant.
14	MS. THOMPSON: I don't have any questions.	14	Q. And does this study say that actually the
15	Do you, John?	15	pathology confirmed that there was pain in 28 percent of
16	MR. FABRY: No.	16	the cases, or that that was just listed on the sheet?
17	MS. THOMPSON: We're done.	17	A. That's just listed on the sheet. Pathologists
18	MR. SNELL: I just have a few in	18	are never be able to confirm if the patient has pain or
19	follow-up.	19	not has pain.
20	Dr. Zheng, just keep looking at the	20	Q. You stated earlier that pain is a subjective
21	camera. That way I don't have to come around and move	21	complaint; is that correct or not?
22	all your stuff.	22	A. Yes.
23	EXAMINATION	23	Q. Does this paper discuss the number of cases
24	BY MR. SNELL:	24	which were litigation-related or lawyer-referral cases?
25	Q. Earlier in the deposition you were asked about	25	A. Based on my understanding, this paper did not
	ζ. — μ.γ , τ		, ,
	Page 271		Page 273
1	when you began consulting with Ethicon, and I'm not sure	1	Page 273 release such information.
1 2	when you began consulting with Ethicon, and I'm not sure if you testified it was 2012 or 2013.	1 2	_
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or scientist want to make some statements, they have to 2 have material examined. Then based on their findings, 3 then their understandings to conclude something.

Q. You were asked questions -- general questions -- strike that.

You were asked general questions in the abstract whether no inflammation was better than some chronic inflammation. Do you recall those types of questions?

- A. Yes. But, overall, no inflammation versus mild inflammation usually translates into clinical side is to see if they are meaningful or not. Usually those conditions they are not meaningful. It shows no differences in the clinical aspects.
- Q. You were asked questions about Mrs. Edwards' connective tissue and it being dense or loose or these different terms.

Was her connective tissue, in your opinion, normal?

- 20 A. They are all belong to part of the integrated 21 tissues.
- 22 Q. Okay.

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- 23 Therefore, looks very -- reasonably normal. A.
 - Okay. You were asked questions about bladder perforation, and I believe you testified that you thought

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- slides produced by Dr. Iakovlev that there were missing
- 2 levels. Can you explain what you meant by that? 3 A. Mainly because, based on the slides, parallel
- 4 levels, for instance, from block A or block B, they -- in the normal situation they should look very much similar
- 6 from one level to the other, because only few micron

away.

But, however, from the slides I received, for instance either H&E or S100 staining, then one structure present in the one field, then in the next level I am not able to find those similar structure. I have to move away quite a lot.

Therefore indicating there is in between, you know, multiple microns being missed. And where are they? That's usually related to tissue cutting, because the technician typically when they cut one section, then additional level, they will trim something, then go to additional level.

- Q. You were asked questions about how in your work you will generally look at slides, but you will also answer questions on the gross specimen if those situations arise?
- A. Oh, yes. Because in our academic setting, although as attending do not -- usually do not look for every gross specimens. But all the gross descriptions

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- that TVT-O had a higher rate of bladder perforation than
- TVT Retropubic. Do you know whether that's correct or 2

3 not?

- 4 A. I think I made -- my memory was wrong. TVT-O,
- because it's a different procedure, therefore, it's a
- 6 little bit away from the bladder. Therefore, the
- 7 perforation rate should be lower than the suburethra
- 8 other procedures.

9 THE WITNESS: I think I probably -- when I 10 talked to you, that was my memory mistake.

11 (By Mr. Snell)

- Q. You were asked questions about mesh complications, like exposure and inflammation. My question is, can nonmesh-related surgeries have complications like wound healing complications?
- A. Oh, yes. That's also any kind of surgery can have wound associated complications.
- 18 Q. Can there be erosions of permanent sutures?
 - A. There are cases reported in that way, yes.
- 20 Q. Are issues like wound dehiscence, infection,
- 21 inflammation specific to mesh surgery?
 - A. I don't think so.
- 23 Q. When you earlier testified that based on the 24 slides plaintiffs' counsel provided -- strike that.
- 25 You earlier testified that based on the

are available when we sign out the cases, number one.

2 Number two is the attendings, if they have questions to ask about the gross specimens, then the residents should answer. If they are not able to answer, 5 then we have opportunity to pull out the gross specimen and then we examine it.

- Q. And the gross specimens that are handled at your facility and put into slides, do they look like those gross specimens that the plaintiffs' counsel marked that purport to show what Dr. Iakovlev had done some year and a half later?
- A. Typically the gross specimen in formalin in the normal situation is like being processed less than a few days, or two to three days, in normal conditions. In majority of condition, even just one day, because today have surgery, and then next day will be grossed.
 - Q. Now, I want to ask you to turn to Exhibit...

What happens when mesh is left in formalin for a long time like was done here?

20 A. I think we briefly discussed in the previous 21 hours. If the specimen, including mesh specimen, is left

22 in formalin for longer time, then the formalin can cause

change of the shape of the specimen, basically. Okay? 23

24 For instance, because the water element has been lost or

been removed, then the tissue start to contract.

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	WEIIXIII ZII		
	Page 278		Page 280
1	And then also formalin is known to cause	1	Q. And remember we just looked at that hypothesis
2	protein cross linking to each other. This cross linkage	2	about oxidation referenced in Costello?
3	also can make tissue feel harder, number one, and also	3	A. Yes.
4	make the tissue contract if it's elongated shape. If	4	Q. Turn, if you would, to page 267, Doctor.
5	it's a round, oval shape, then make them just firmer or	5	A. Yes. Hold on.
6	shrink the tissue.	6	Q. Go back one more to page 267. There on the
7	Q. Turn to Exhibit 18, the Costello paper that	7	top right corner.
8	plaintiffs' counsel marked.	8	A. No. This is 265. Then suddenly become 270.
9	A. Yes.	9	Oh, 267, that's in the next page.
10	Q. This is a hernia mesh paper, correct?	10	Q. That's the right page. In the left corner it
11	A. Correct.	11	talks about direct oxidation of the polypropylene. Do
12	Q. And Mrs. Edwards received a 1.1-centimeter	12	you see that?
13	strip of mesh for her stress urinary incontinence,	13	A. Yes.
14	correct?	14	Q. And the last sentence in that section states,
15	A. Yes.	15	The FTIR analysis neither confirmed nor excluded
16	Q. Plaintiffs' counsel pointed you down to the	16	oxidation of PP in the in vivo environment, correct?
17	paragraph on the right, first page, talking about	17	A. Yes.
18	potential sources of chronic pain, and she mentioned one	18	Q. So even in this paper it certainly did not
19	being an intense inflammatory reaction. Do you recall	19	confirm oxidation, correct?
20	that?	20	MR. FABRY: Objection to form. Leading.
21	A. Yes.	21	A. Yes.
22	Q. Did Mrs. Edwards have an intense inflammatory	22	MR. SNELL: I'll rephrase.
23	reaction?	23	(By Mr. Snell)
24	A. For Mrs. Edwards' specimen, we only see mild	24	Q. Did the FTIR analysis confirm oxidation in
25	degree of chronic inflammation.	25	this paper?
23	degree of chrome inframmation.	23	uns paper:
	D 070		
	Page 279		Page 281
1	Q. She also, plaintiffs' counsel, pointed you to	1	Page 281 A. No.
1 2	<u> </u>	1 2	_
	Q. She also, plaintiffs' counsel, pointed you to		A. No.
2	Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from	2	A. No.Q. Turn back actually one page.
2 3	Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case?	2 3	A. No.Q. Turn back actually one page.A. 265?
2 3 4	Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case? A. I did not see that evidence.	2 3 4	A. No.Q. Turn back actually one page.A. 265?Q. 266.
2 3 4 5	 Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case? A. I did not see that evidence. Q. And is it your opinion that there's no 	2 3 4 5	A. No.Q. Turn back actually one page.A. 265?Q. 266.A. 266.
2 3 4 5 6	 Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case? A. I did not see that evidence. Q. And is it your opinion that there's no histologic evidence of that in Mrs. Edwards' case? A. Correct. 	2 3 4 5 6	 A. No. Q. Turn back actually one page. A. 265? Q. 266. A. 266. Q. It has the bar chart at the top.
2 3 4 5 6 7	 Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case? A. I did not see that evidence. Q. And is it your opinion that there's no histologic evidence of that in Mrs. Edwards' case? A. Correct. Q. Turning to Exhibit 18, the Clave paper hold 	2 3 4 5 6 7	 A. No. Q. Turn back actually one page. A. 265? Q. 266. A. 266. Q. It has the bar chart at the top. A. No. I have multiple pages for 270. No.
2 3 4 5 6 7 8	 Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case? A. I did not see that evidence. Q. And is it your opinion that there's no histologic evidence of that in Mrs. Edwards' case? A. Correct. Q. Turning to Exhibit 18, the Clave paper hold on before you go there. 	2 3 4 5 6 7 8	 A. No. Q. Turn back actually one page. A. 265? Q. 266. A. 266. Q. It has the bar chart at the top. A. No. I have multiple pages for 270. No. Let's see. 266, 267 this one? Q. That's it.
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2 3 4 5 6 7 8 9	Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case? A. I did not see that evidence. Q. And is it your opinion that there's no histologic evidence of that in Mrs. Edwards' case? A. Correct. Q. Turning to Exhibit 18, the Clave paper hold on before you go there. Do you remember plaintiffs' counsel read to you the last sentence of the abstract about the	2 3 4 5 6 7 8 9	 A. No. Q. Turn back actually one page. A. 265? Q. 266. A. 266. Q. It has the bar chart at the top. A. No. I have multiple pages for 270. No. Let's see. 266, 267 this one? Q. That's it. A. Yes. Okay. Q. Look at the very last paragraph on that page.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case? A. I did not see that evidence. Q. And is it your opinion that there's no histologic evidence of that in Mrs. Edwards' case? A. Correct. Q. Turning to Exhibit 18, the Clave paper hold on before you go there. Do you remember plaintiffs' counsel read to you the last sentence of the abstract about the results supporting a hypothesis that oxidation is involved with degradation? Do you recall that? A. Yes. Q. For the polypropylene hernia mesh materials, do you recall plaintiffs' counsel reading that? A. I recall that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A. No. Q. Turn back actually one page. A. 265? Q. 266. A. 266. Q. It has the bar chart at the top. A. No. I have multiple pages for 270. No. Let's see. 266, 267 this one? Q. That's it. A. Yes. Okay. Q. Look at the very last paragraph on that page. It states, Several hypotheses concerning the degradation of polypropylene are described below. None of these, particularly direct oxidation, could be confirmed in this study. Did I read that correctly? A. Correct. Q. Turn to page I'm sorry Exhibit
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case? A. I did not see that evidence. Q. And is it your opinion that there's no histologic evidence of that in Mrs. Edwards' case? A. Correct. Q. Turning to Exhibit 18, the Clave paper hold on before you go there. Do you remember plaintiffs' counsel read to you the last sentence of the abstract about the results supporting a hypothesis that oxidation is involved with degradation? Do you recall that? A. Yes. Q. For the polypropylene hernia mesh materials, do you recall plaintiffs' counsel reading that? A. I recall that. Q. Now turn to Exhibit 18, the Clave paper. A. This is 18.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. No. Q. Turn back actually one page. A. 265? Q. 266. A. 266. Q. It has the bar chart at the top. A. No. I have multiple pages for 270. No. Let's see. 266, 267 this one? Q. That's it. A. Yes. Okay. Q. Look at the very last paragraph on that page. It states, Several hypotheses concerning the degradation of polypropylene are described below. None of these, particularly direct oxidation, could be confirmed in this study. Did I read that correctly? A. Correct. Q. Turn to page I'm sorry Exhibit Number 20, the paper by Mary, M-A-R-Y. A. Yes, I have that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case? A. I did not see that evidence. Q. And is it your opinion that there's no histologic evidence of that in Mrs. Edwards' case? A. Correct. Q. Turning to Exhibit 18, the Clave paper hold on before you go there. Do you remember plaintiffs' counsel read to you the last sentence of the abstract about the results supporting a hypothesis that oxidation is involved with degradation? Do you recall that? A. Yes. Q. For the polypropylene hernia mesh materials, do you recall plaintiffs' counsel reading that? A. I recall that. Q. Now turn to Exhibit 18, the Clave paper. A. This is 18. Q. What's Clave? It's probably 19. C-L-A-V-E.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. No. Q. Turn back actually one page. A. 265? Q. 266. A. 266. Q. It has the bar chart at the top. A. No. I have multiple pages for 270. No. Let's see. 266, 267 this one? Q. That's it. A. Yes. Okay. Q. Look at the very last paragraph on that page. It states, Several hypotheses concerning the degradation of polypropylene are described below. None of these, particularly direct oxidation, could be confirmed in this study. Did I read that correctly? A. Correct. Q. Turn to page I'm sorry Exhibit Number 20, the paper by Mary, M-A-R-Y. A. Yes, I have that. Q. You see this was a canine study; it's not a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. She also, plaintiffs' counsel, pointed you to the next sentence that talked about nerve damage from entrapment. Did you see that in Mrs. Edwards' case? A. I did not see that evidence. Q. And is it your opinion that there's no histologic evidence of that in Mrs. Edwards' case? A. Correct. Q. Turning to Exhibit 18, the Clave paper hold on before you go there. Do you remember plaintiffs' counsel read to you the last sentence of the abstract about the results supporting a hypothesis that oxidation is involved with degradation? Do you recall that? A. Yes. Q. For the polypropylene hernia mesh materials, do you recall plaintiffs' counsel reading that? A. I recall that. Q. Now turn to Exhibit 18, the Clave paper. A. This is 18. Q. What's Clave? It's probably 19. C-L-A-V-E. What's that marked, Doctor?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No. Q. Turn back actually one page. A. 265? Q. 266. A. 266. Q. It has the bar chart at the top. A. No. I have multiple pages for 270. No. Let's see. 266, 267 this one? Q. That's it. A. Yes. Okay. Q. Look at the very last paragraph on that page. It states, Several hypotheses concerning the degradation of polypropylene are described below. None of these, particularly direct oxidation, could be confirmed in this study. Did I read that correctly? A. Correct. Q. Turn to page I'm sorry Exhibit Number 20, the paper by Mary, M-A-R-Y. A. Yes, I have that. Q. You see this was a canine study; it's not a study of women with stress urinary incontinence?
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	Page 282		Page 284
1	A. No. I never see PVDF studies for SUI.	1	compare, you know, what the mesh material should look
2	Q. You have a stack of about 15 different	2	like under those conditions, and then the collagen
3	professional organization and association statements	3	bundles should look like in those two conditions.
4	speaking to stress urinary incontinence meshes. Have you	4	Therefore, the picture basically speaks itself.
5	seen any of those professional organizations, like AUGS,	5	Q. And those are marked just collectively as part
6	SUFU, AUA, who endorse PVDF as a mesh material to be used	6	of Exhibit Number 2?
7	for the treatment of stress urinary incontinence in	7	A. Yeah. Okay.
8	women?	8	Q. And your nerve filament pictures are also in
9	MS. THOMPSON: Object.	9	Exhibit Number 2?
10	A. No, I did not see those position statements	10	A. I think so. It's there.
11	for PVDF.	11	Q. That's fine.
12	(By Mr. Snell)	12	A. The neurofilament picture is already in my
13	Q. Plaintiffs' counsel asked you questions about	13	report. I mentioned that. That's in Figure 7 in my
14	the alleged, quote, bark, close quote, that Dr. Iakovlev	14	report.
15	has testified he thinks is degraded polypropylene, and	15	MR. SNELL: Let's go off the record,
16	you've testified about your opinions regarding that,	16	please.
17	correct?	17	THE VIDEOGRAPHER: Off the record 7:58.
18	A. Yes, I did.	18	(Off the record.)
19	Q. Do you have and I believe we've marked only	19	(This portion not on videotape.)
20	one or two of your slides regarding your polarization of	20	MR. SNELL: Counsel, we have agreed that
21	Mrs. Edwards' mesh. But do you have many more slides?	21	Exhibit 2 is going to be all the different photos, the
22	A. I think so. I have PPT presentation I think	22	PowerPoint presentations that Dr. Zheng brought and
23	included. But I just did not include all these pictures	23	produced, correct, Counsel?
24	into my report. So these multiple pictures or multiple	24	MS. THOMPSON: That's correct.
25	area showing evidence of those so-called bark-like area	25	MR. SNELL: So now we can go back on the
	Page 283		Page 285
1	actually more likely resemble those adjacent collagen	1	video.
2	bundles within the connective tissue. But if you want to	2	THE VIDEOGRAPHER: Hold on.
3	show for instance, this picture, I never showed that.	3	On the record 8:04.
4	Okay. I don't know if you	4	(By Mr. Snell)
5	MR. SNELL: Let's mark the whole	5	Q. Dr. Zheng, we were just discussing part of
6	presentation collectively.	6	Exhibit 2, the PowerPoint photographs regarding
7	THE COURT REPORTER: It's marked as part	7	comparisons of the HE pictures to those after
8	of Exhibit 2 already.	8	polarization, correct?
9	MR. SNELL: Oh, Exhibit 2 is marked?	9	A. Correct.
10	Okay.	10	Q. And do you also have pictures regarding
11	THE WITNESS: Right. But this is just a	11	vascular pictures for Mrs. Edwards?
12	little bit messy because too much information. I think	12	A. Yes. I have vascular normal vascular
13	that may take you a long time to sort them out.	13	picture looking and also normal nerve looking pictures
14	MS. THOMPSON: It will.	14	under regular microscope.
15	(By Mr. Snell)	15	Q. And there's neurofilament staining?
16	•	16	
	Q. Well, you put labels on those explaining		A. There's neurofilament staining as well as
17	what's there, the different magnifications, the staining	17	normal control from the staining process.
18	types?		Q. And the nerve filament staining is specific to
19	A. Correct.	19	Mrs. Edwards, correct, besides the control?
20	Q. Where the mesh is?	20	A. Neurofilaments is considered specific antibody
21	A. Right.	21	which recognize nerve fibers.
22	Q. How the mesh can appear in different colors	22	Q. And there's photographs of sections that are
23	depending upon	23	fragmented in the recent recuts from blocks A and B?
۱			_
24	A. Right. And then I typically use one picture	24	A. Yes. I also took some pictures just in case,

is polarized, then the other picture is nonpolarized to

you know, why I later on do not do further sectionings,

	Page 286		Page 288
1	because tissue fragmentation started. Here it is. And	1	MR. SNELL: Form.
2	these. So, therefore, a few pictures included.	2	A. Depending on I have to see, you know, what
3	Q. Okay.	3	kind of material presented. Then I will generate
4	A. But the slides are also still being kept in my	4	picture. I don't usually give an assumption or basically
5	office.	5	saying all the published material then represent true
6		6	
	Q. You were asked questions, Dr. Zheng, about		scientific findings. Even we are all aware of many
7	heavyweight versus lightweight mesh, and you testified	7	publications that have defects or limitations there.
8	from your practice point of view weight is not related to	8	(Marked for Identification:
9	your opinions. What did you mean by that?	9	Deposition Exhibit No. 37)
10	A. Basically I'm a pathologist. I examine tissue	10	MS. THOMPSON: That's all I have.
11	sections. Then based on the tissue section findings, I	11	And the only additional item is I've just
12	generate an opinion. And then, you know, those opinions	12	marked an invoice for Dr. Zheng's expert work on the
13	usually not related to what kind of mesh or foreign body	13	Carolyn Lewis case as Exhibit 37.
14	materials in it.	14	And I have no further questions.
15	Therefore, in terms of light- versus	15	MR. SNELL: I don't have any.
16	heavyweight for the mesh material, frankly speaking, I	16	THE VIDEOGRAPHER: Off the record 8:11.
17	don't pay attention to that.	17	This concludes today's deposition.
18	Q. All opinions in your report are held to a	18	(Deposition concluded at 8:11 p.m.)
19	reasonable degree of medical certainty?	19	
20	A. Yes.	20	
21	MR. SNELL: That's all I have.	21	
22	MS. THOMPSON: I have just a couple of	22	
23	follow-up questions.	23	
24		24	
25		25	
	Page 287		Page 289
1	RE-EXAMINATION	1	SIGNATURE PAGE
1 2	RE-EXAMINATION BY MS. THOMPSON:	1 2	SIGNATURE PAGE I, WENXIN ZHENG, M.D., a deponent exercising my
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1	STATE OF ARIZONA)
2	COUNTY OF PIMA)
3	BE IT KNOWN the foregoing deposition was taken
4	by me pursuant to stipulation of counsel; that I was then
5	and there a Certified Court Reporter of the State of
6	Arizona, and by virtue thereof authorized to administer
7	an oath; that the witness before testifying was duly
8	sworn by me to testify to the whole truth; pursuant to
9	request, notification was provided that the deposition is
10	available for review and signature; that the questions
11	propounded by counsel and the answers of the witness
12	thereto were taken down by me in shorthand and thereafter
13	transcribed into typewriting under my direction; that the
14	foregoing pages are a full, true, and accurate transcript
15	of all proceedings and testimony had and adduced upon the
16	taking of said deposition, all to the best of my skill
17	and ability.
18	I FURTHER CERTIFY that I am in no way related
19	to nor employed by any parties hereto nor am I in any way
20	interested in the outcome thereof.
21	DATED at Tucson, Arizona, this 14th day of
22	April, 2014.
23	
24	Bonnie J. Humm
25	Certified Court Reporter #50722